HCD-H771/H771D

SERVICE MANUAL

US Model
Canadian Model
HCD-H771/H771D
AEP Model
UK Model
E Model
Australian Model
HCD-H771

HCD-H771/H771D is the tuner, deck, CD and amplifier section in MHC-D6/G77/771.

Photo : H771 US model

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

CD SECTION	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM38-5BD19
	Base Unit Type	BU-5BD19
	Optical Pick-up Type	KSS-213BA/F-NP
TAPE DECK SECTION	Model Name Using Similar Mechanism	HCD-H701
	Tape Transport Mechanism Type	TCM-220WR2E

SPECIFICATIONS

For the U.S. model
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6 ohm loads, both channels driven, from 40 – 20,000 Hz; rated 50 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output.

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ =780 nm) Emission daration: continnous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response	2 Hz–20 kHz (± 0.5 dB)
Wavelength	780–790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
  East European, CIS models:
    65.0–74.0 MHz
    87.5–108.0 MHz
  Other models:
    87.5–108.0 MHz
Antenna FM lead antenna
Antenna terminals
    75 ohm unbalanced
Intermediate frequency
    10.7 MHz

AM tuner section

Tuning range
  US, Canadian models:
    AM: 531–1,710 kHz
  German, Italian models:
    AM: 531–1,602 kHz
    (with the interval set at 9 kHz)
  AEP, UK, East European models:
    MW: 531–1,602 kHz
    (with the interval set at 9 kHz)
    LW: 153–279 kHz
    (with the interval set at 3 kHz)
  E2, Australian, Argentine, Mexican, Thailand models:
    531–1,602 kHz (with the tuning interval set at 9 kHz)
    530–1,710 kHz (with the tuning interval set at 10 kHz)
  E3, Saudi Arabia, Malaysia, Singapore, Hong Kong models:
    MW: 531–1,602 kHz
    (with the interval set at 9 kHz)
    530–1,710 kHz
    (with the interval set at 10 kHz)
    SW: 5.95–17.90 MHz

— Continued on next page —

MICROFILM

COMPACT DISC DECK RECEIVER

SONY®

CIS model:
MW: 531–1,602 kHz
LW: 153–279 kHz
SW: 5.95–17.9 MHz

Antenna AM loop antenna,
External antenna terminals

Intermediate frequency
450 kHz

Amplifier section

DIN power output
AEP, UK, German, Italian,
East European, CIS models:
35W+35W
(6 ohms, at 1 kHz, DIN)

Continuous RMS power output
US model:
50W+50W
(6 ohms at 40–20,000 Hz,
0.8% THD)
Canadian model:
50W+50W
(8 ohms at 1 kHz, 5% THD)
AEP, UK, German, Italian,
East European, CIS models:
45W+45W
(6 ohms at 1 kHz, 10% THD)
Other models:
45W+45W
(6 ohms at 1 kHz, 5% THD)

Music power output
AEP, UK, German, Italian,
East European, CIS models:
80W+80W
(6 ohms at 1 kHz, 10% THD)

Peak music power output
EXCEPT US, Canadian, AEP, UK,
German, Italian, East European, CIS
models : 700W

Inputs
H771: US, Canadian models
100 CD/VIDEO IN (Phono jacks):
Other models
VIDEO/MD IN (Phono jacks):
voltage 450 mV,
impedance 47 kilohms
MIX MIC (phone jacks):
sensitivity 1 mV,
impedance 10 kilohms

Outputs
H771: US, Canadian models
100 CD/VIDEO OUT (Phono jacks):
Other models
VIDEO/MD OUT (Phono jacks):
voltage 250 mV,
impedance 1 kilohms
PHONES (stereo phone jack):
accepts headphones of 8 ohms or more.
SPEAKER:
accepts impedance of 6 to 16 ohms.
SURROUND SPEAKERS:
Except H771: AEP, UK, German, Italian,
East European, CIS/H771D:
accepts impedance of 16 ohms.
SUPER WOOFER:
Except H771: AEP, UK, German, Italian,
East European, CIS/H771D:
Voltage 1V, impedance 1 kilohms.

Tape player section

Recording system
4-track 2-channel stereo

Frequency response
(DOLBY NR OFF)
40–13,000 Hz (± 3 dB),
using Sony TYPE I cassette
40–14,000 Hz (± 3 dB),
using Sony TYPE II cassette

Wow and flutter
± 0.15% W. Peak (IEC)
0.1% W. RMS (NAB)
± 0.2% W. Peak (DIN)

General

Power requirements
US, Canadian, Mexican models:
120V CA, 60 Hz
AEP, UK, German, Italian,
East European, CIS models:
220–230V AC, 50/60 Hz
Australian model:
240V AC, 50/60 Hz
Malaysia, Thailand models:
220–240V AC, 50/60 Hz
Other models:
110–120V or 220–240V AC
Adjustable with the voltage selector

Power consumption
US model:
110W
Canadian model:
150W
AEP, UK, German, Italian,
East European, CIS models:
80W
Other models:
110W

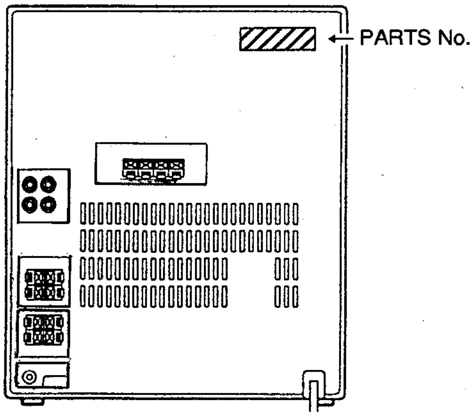
Dimensions Approx. 280 × 325 × 360 mm
(11 1/8 × 12 7/8 × 14 1/4 in) (w/h/d)
incl. projecting parts and controls

Mass
US, Canadian, Mexican models:
Approx. 8.2 kg (18 lb 1 oz)
AEP, UK, German, Italian,
East European, CIS models:
Approx. 8.1 kg (17 lb 13 oz)
Other models:
Approx. 8.4 kg (18 lb 8 oz)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

— BACK PANEL —



MODEL	PARTS No.
H771D : US model	4-978-817-9□
H771D : Canadian model	4-982-549-0□
H771 : US model	4-978-817-7□
H771 : Canadian model	4-978-817-8□
H771 : AEP model	4-978-817-0□
H771 : UK model	4-978-817-1□
H771 : German model	4-978-817-2□
H771 : Italian model	4-978-817-3□
H771 : East European model	4-978-817-4□
H771 : CIS model	4-978-817-5□
H771 : E2, E3 model	4-979-275-0□
H771 : Saudi Arabia model	4-979-275-1□
H771 : Australian model	4-979-275-2□
H771 : Mexican model	4-979-275-3□
H771 : Malaysia model	4-979-275-4□
H771 : Singapore model	4-979-275-5□
H771 : Argentine model	4-979-275-6□
H771 : Hong Kong model	4-979-275-7□
H771 : Thailand model	4-979-275-8□

- Abbreviation
E2 : Without SW tuner model.
E3 : With SW tuner model.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION :	INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM.
ADVARSEL:	USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! :	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING :	LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÄD OCH SPÄRREN ÄR URXOPPLAD.
ADVERSEL:	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor ofthe circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

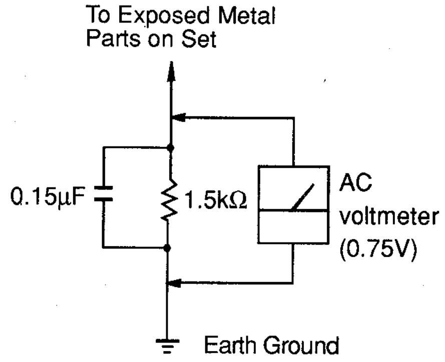


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.
  TH : Thailand model.

SECTION 1

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

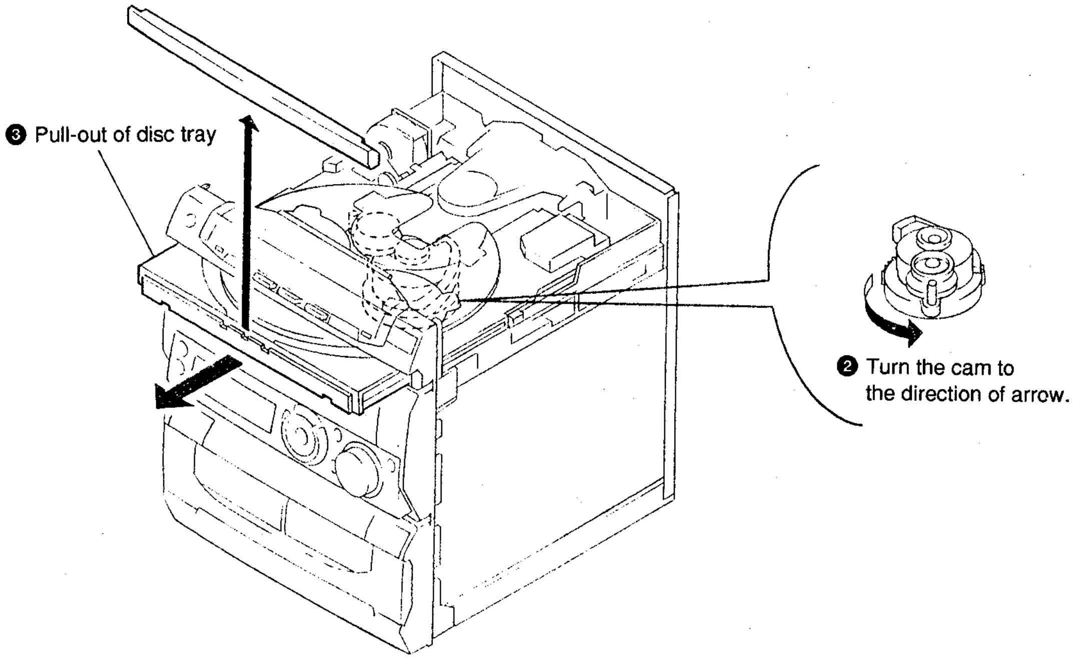
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

[Switching the channel step 9 KHz/10 KHz]

Press ENTER/NEXT button and POWER button simultaneously to switch the AM channel step 9 KHz and 10 KHz. Be sure not to change with carelessness.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH OFF

❶ Remove the case.



[FL Display Tube, LED All Lit and Key Check mode]

When the TUNER/BAND, DISPLAY/DEMO, and MENU 2 buttons are pressed simultaneously, the FL display tube and LEDs will all light up. Press any button to enter the key check mode.

When the key check mode is entered, the FL display tube displays “K 1 J0 V0”. Each time button is pressed, the counter increases in the following order, K 2 → K 3 → K 4.

If buttons already pressed once are pressed again, the counter will not increase. When the VOLUME knob is rotated in the + direction, the count increases in the following order.

V1 → V2 → V3.

When rotated in the – direction, it decreases in the following order.

V0 → V9 → V8.

When the AMS dial is rotated in the clockwise direction, the count increases in the following order.

J1 → J2 → J3.

When rotated in the counterclockwise direction, it decreases in the following order.

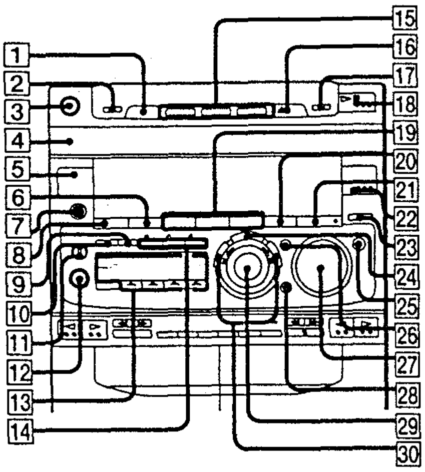
J0 → J9 → J8.

To exit form the test mode, press the TUNER/BAND, DISPLAY/DEMO, MENU 2 buttons simultaneously again.

SECTION 2
GENERAL

This section is extracted from instruction manual.

Front Panel


1
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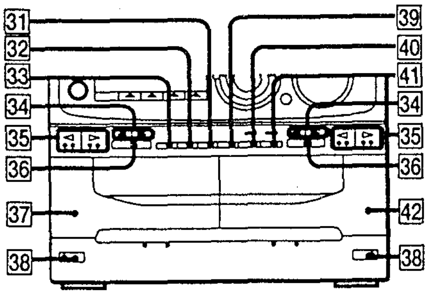
31
32
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37
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40
41
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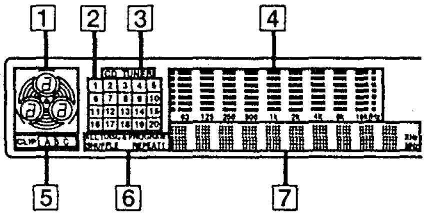
35
36
42
38

1 DISC SKIP EX-CHANGE button (7)
2 LOOP button (10)
3 POWER switch (7)
4 Disc tray (7)
5 TIMER button (22)
6 SURROUND button (20)
7 PHONES jack (19)
8 DISPLAY/DEMO button (5)
9 CLIP ERASE button (10)
10 CLIP PLAY button (10)
11 MIC LEVEL knob (24)
12 MIX MIC jack (24)
13 MULTI FUNCTION CONTROL buttons (30)
14 CLIP A – C buttons (10)
15 DISC 1 – 3 buttons (7)
16 ⏏ OPEN/CLOSE button (7)
17 □ (stop) button (7)
18 ▷II (play/pause) button* (7)
19 MENU 1 – 3 buttons (19)
20 P FILE button (21)
21 EFFECT ON/OFF button* (19)
22 TUNER/BAND button* (12)
23 FUNCTION button (8, 24)
24 ENTER/NEXT button (9)
25 GROOVE button* (19)
26 DBFB button (19)
27 VOLUME control* (19)
28 KARAOKE PON/MPX button (24)
29 JOG dial (7)
30 FREQUENCY +/– buttons (20)
31 HIGH SPEED DUBBING button (18)
32 DIRECTION button (14)
33 DOLBY NR button (14)
34 ◁◁/▷▷ (rewind/fast forward) button (14)
35 ◁/▷ reverse side play/front side play button* (14)
36 □ (stop) button (14)
37 Deck A (14)
38 ⏏ EJECT button (14)
39 CD SYNCHRO button (15)
40 ○ REC button* (15)
41 II PAUSE button* (15)
42 Deck B (14)

Display Window


1
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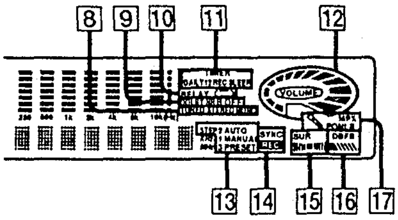
7
CD TUNER
CLIP

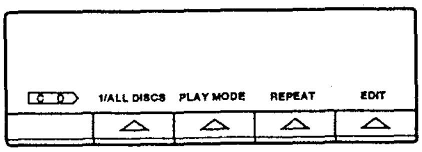

8
9
10
11
12
VOLUME
SYNC REC
SUR
DBFB
MPX
13
14
15
16
17

1 Disc tray indicator
2 Music calendar (7)
3 CD/TUNER indicator (7, 12)
4 Graphic Equalizer indicator (20)
5 CLIP indicators (10)
6 CD playback indicators (8, 9)
7 Multi display
8 Tuning indicator (12)
9 DOLBY NR indicator (14)
10 Direction mode indicators (14)
11 Timer indicators (22, 23)
12 VOLUME indicators
13 Tuner indicators (12, 13)
14 SYNC REC indicator
15 SUR indicator (20)
16 DBFB indicator (19)
17 Karaoke PON/MPX indicators (24)

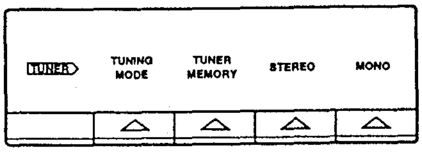
MULTI FUNCTION CONTROL Buttons

The buttons you can operate the CD player, tuner and the timer light up.

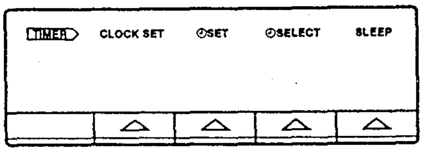
CD player


CD
1/ALL DISCS
PLAY MODE
REPEAT
EDIT

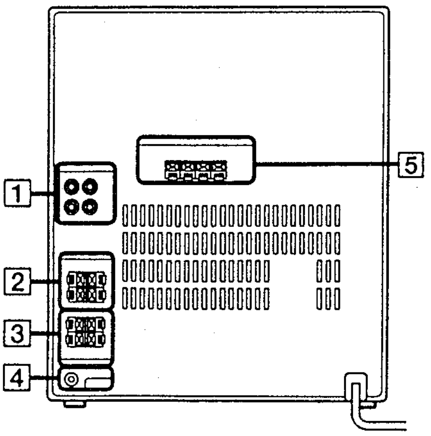
Tuner


TUNER
TUNING MODE
TUNER MEMORY
STEREO
MONO

Timer


TIMER
CLOCK SET
⊘SET
⊘SELECT
SLEEP

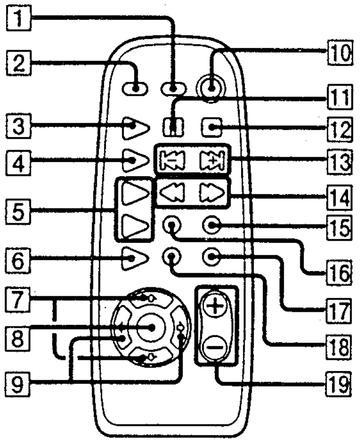
Rear Panel



1 100 CD/VIDEO IN/OUT jacks (25) (H771: US, Canadian models)
1 VIDEO/MD IN/OUT jacks (26)
(Other models)
2 SPEAKER L/R connectors (4)
3 SURROUND SPEAKER L/R connectors
(4) (Except H771: AEP, UK, German, Italian, East European, CIS/H771D models)
4 SUPER WOOFER jack (26)
(Except H771: AEP, UK, German, Italian, East European, CIS/H771D models)
5 ANTENNA terminals (4)

Remote (RM-SD50)

(Other models)

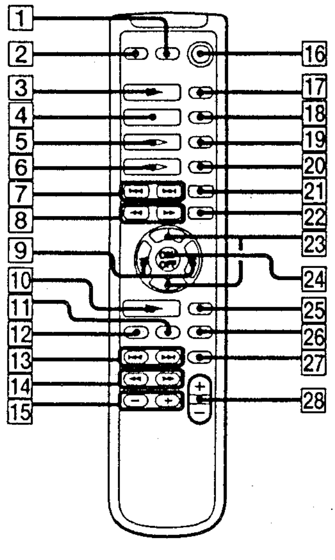


1 SLEEP button (23)
2 LOOP button (11)
3 CD ▷ button (7)
4 TUNER/BAND button (12)
5 DECK A ▷ /DECK B ▷ button (7)
6 FUNCTION ▷ button (8, 25)
7 MUSIC MENU △ / ▽ buttons (20)
8 MUSIC MENU ON/OFF button (20)
9 MUSIC MENU ◁ / ▷ buttons (20)
10 POWER switch (7)
11 ⏸ (pause) button (7)
12 □ (stop) button (7)
13 ⏮ / ⏭ AMS* button (7)
14 ◁ / ▷ (rewind/fast forward) button (8)
15 EDIT button (16)
16 CHECK button (9)
17 DISC SKIP button
18 CLEAR button (9)
19 VOL (+/–) button (20)

* AMS=Automatic Music Sensor

Remote (RM-SC100F)

(H771: US, Canadian models)



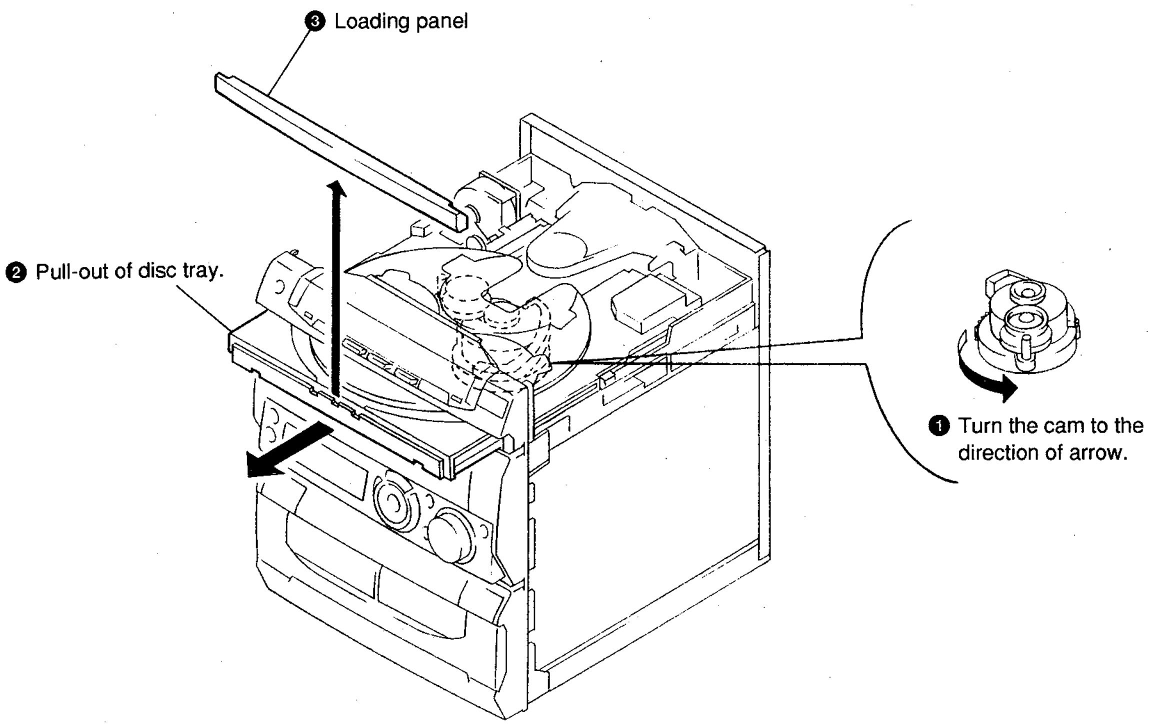
1 FUNCTION button (8, 24)
2 SLEEP button (22)
3 ▷ (CD) button (7)
4 TUNER/BAND button (12)
5 DECK A ◁/▷ button (14)
6 DECK B ◁/▷ button (14)
7 ⏮/⏭ (CD)/TUNING +/– buttons (8, 13)
8 ◀◀/▶▶ (CD) buttons (8)
9 ◀/▶ buttons (19)
10 ▷ (100 CD) button (25)
11 ❚❚ (pause) button (25)
12 ■ (stop) button (25)
13 ⏮/⏭ AMS* (100 CD) buttons (25)
14 ◀◀/▶▶ (100 CD) buttons (25)
15 DISC SKIP +/– (100 CD) button (25)
16 POWER button (7)
17 LOOP button (10)
18 CHECK (CD) button (9)
19 CLEAR (CD) button (9)
20 D.SKIP button (7)
21 ■ (stop) button (7)
22 ❚❚ (pause) button (7)
23 ▲/▼ buttons (19)
24 MUSIC MENU ON/OFF button (19)
25 REPEAT button (9)
26 CHECK (100 CD) button (25)
27 CLEAR (100 CD) button (25)
28 VOLUME +/– button (19)

SECTION 3

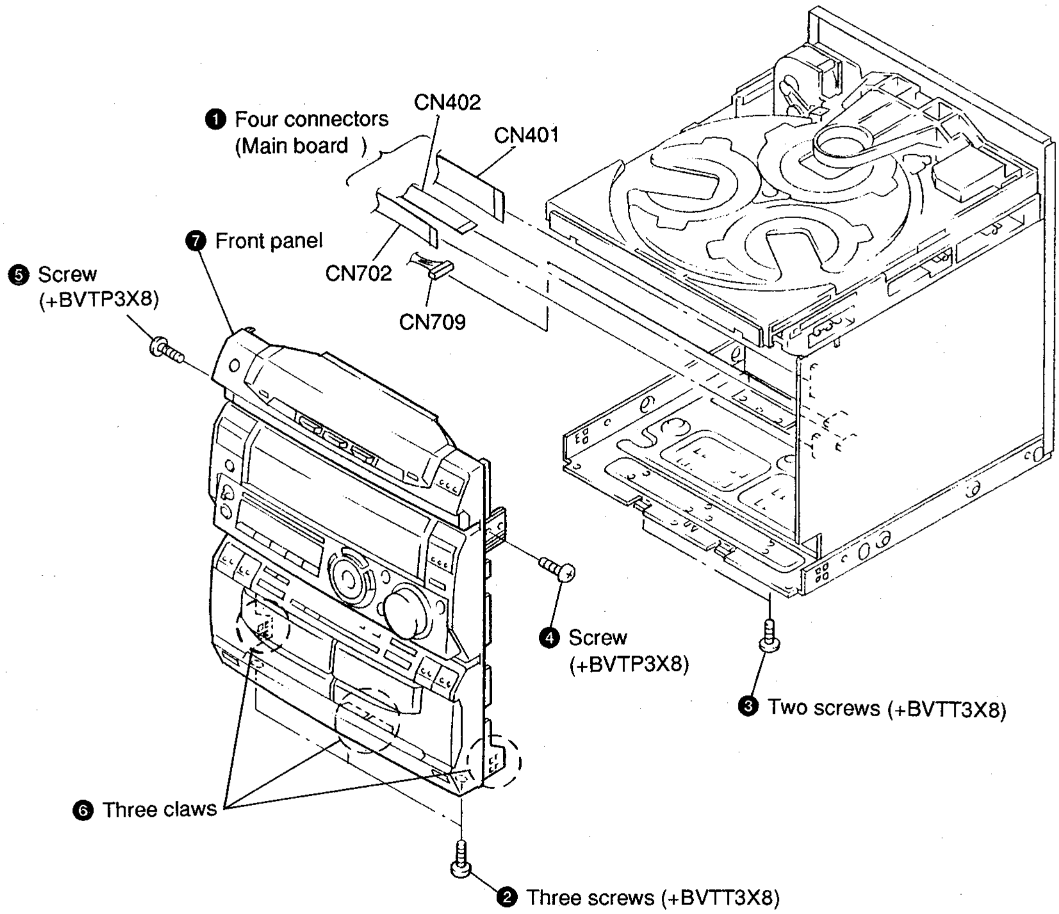
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

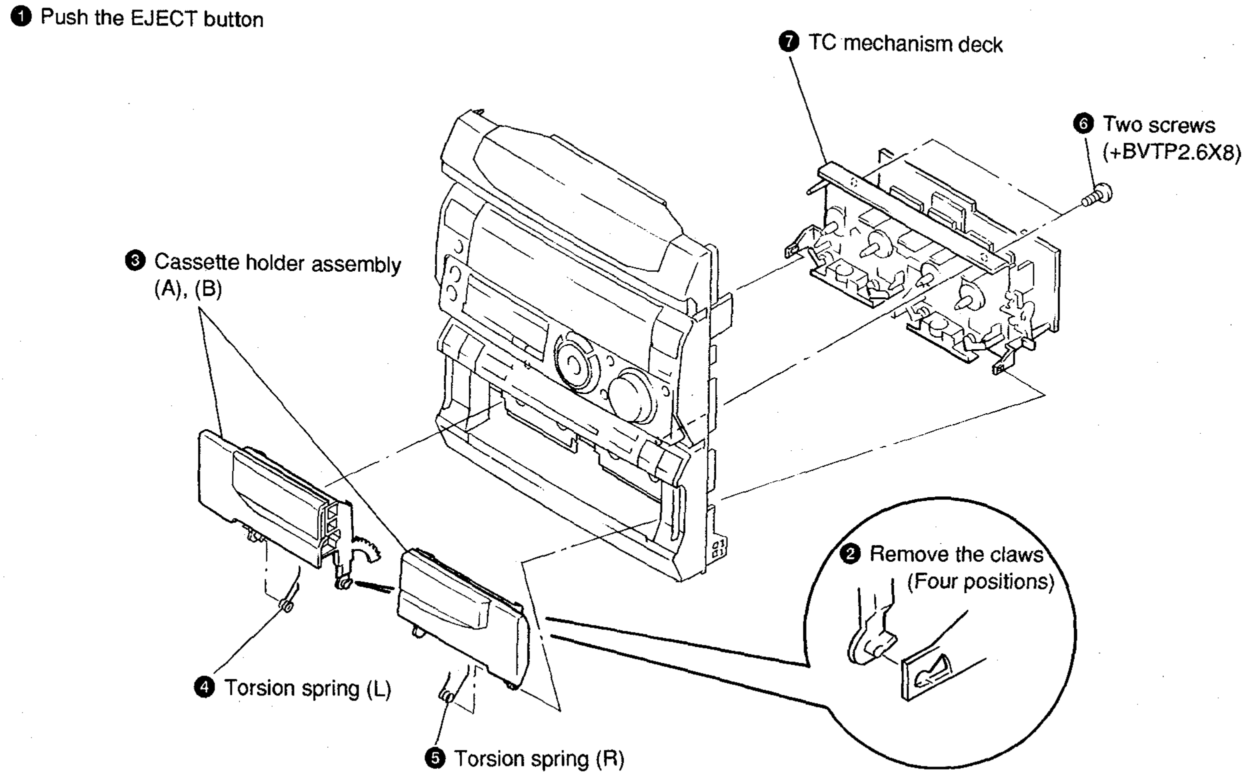
3-1. LOADING PANEL


❸ Loading panel
❷ Pull-out of disc tray.
❶ Turn the cam to the direction of arrow.

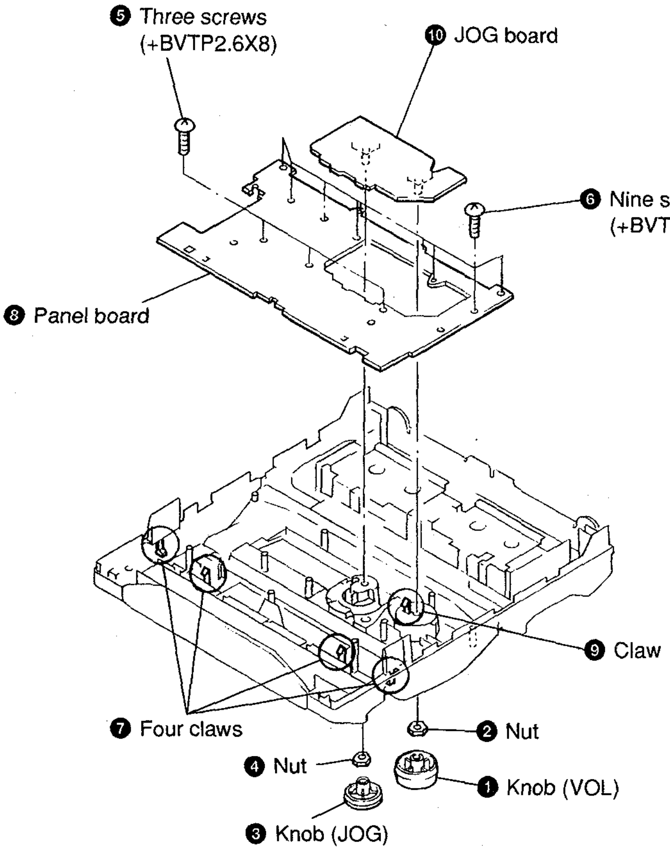
3-2. FRONT PANEL


❶ Four connectors (Main board)
CN402
CN401
❼ Front panel
❺ Screw (+BVTP3X8)
CN702
CN709
❹ Screw (+BVTP3X8)
❸ Two screws (+BVTT3X8)
❻ Three claws
❷ Three screws (+BVTT3X8)

3-3. TC MECHANISM DECK

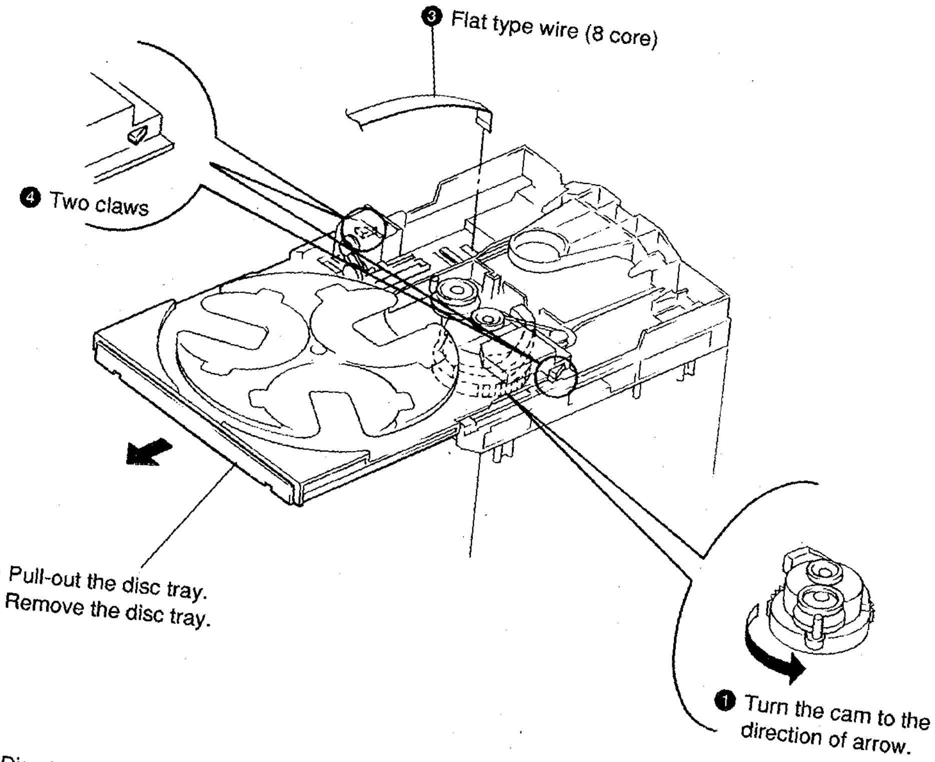

❶ Push the EJECT button
❼ TC mechanism deck
❻ Two screws
(+BVTP2.6X8)
❸ Cassette holder assembly
(A), (B)
❷ Remove the claws
(Four positions)
❹ Torsion spring (L)
❺ Torsion spring (R)

3-4. PANEL BOARD AND JOG BOARD


❺ Three screws
(+BVTP2.6X8)
❿ JOG board
❻ Nine screws
(+BVTP3X8)
❽ Panel board
❾ Claw
❼ Four claws
❷ Nut
❹ Nut
❶ Knob (VOL)
❸ Knob (JOG)

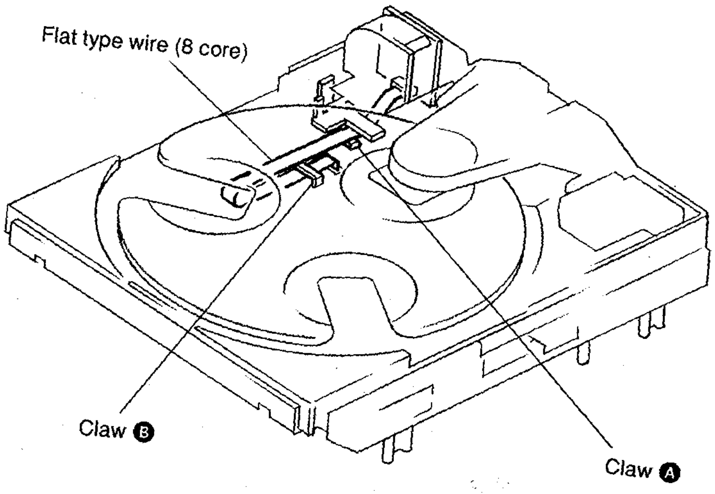
3-5. DISC TRAY

(Perform after removing the front panel.)



③ Flat type wire (8 core)
④ Two claws
② Pull-out the disc tray.
⑤ Remove the disc tray.
① Turn the cam to the direction of arrow.

Note : When installing the Disc tray, pull around the flat type wire to pass through the claw Ⓐ and claw Ⓑ, as shown in the figure.



Flat type wire (8 core)
Claw Ⓑ
Claw Ⓐ

SECTION 4

MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab :

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	36 to 61g • cm (0.5 – 0.84 oz • inch)
FWD back tension	CQ-102C	2 to 6g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	36 to 61g • cm (0.5 – 0.84 oz • inch)
REV back tension	CQ-102RC	2 to 6g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	61 to 143g • cm (0.85 – 1.99 oz • inch)
FWD tension	CQ-403A	100g • cm or more (1.39 oz • inch or more)
REV tension	CQ-403R	100g • cm or more (1.39 oz • inch or more)

SECTION 5

ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head damagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-ch.
7. Switches and controls should be set as follows unless otherwise specified.

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

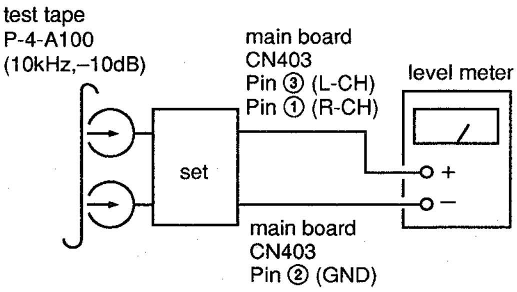
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

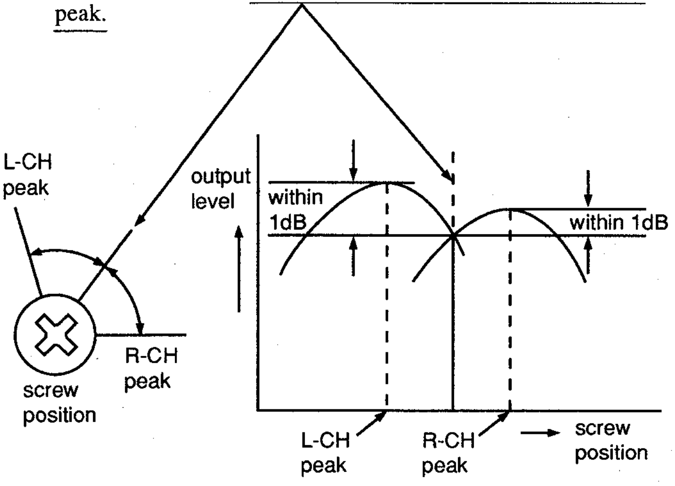
Note : Perform this adjustments for both decks.

Procedure :

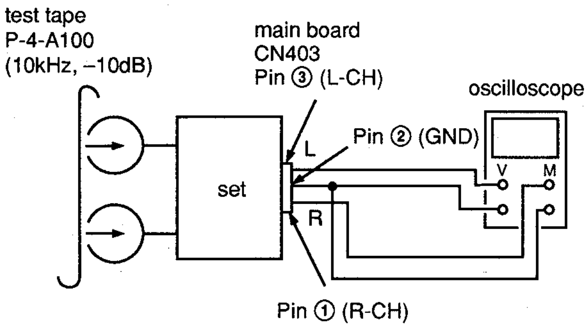
1. Mode : Playback

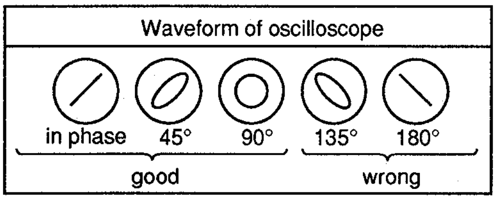


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.


L-CH
peak
screw
position
R-CH
peak
output
level
within
1dB
within 1dB
L-CH
peak
R-CH
peak
screw
position

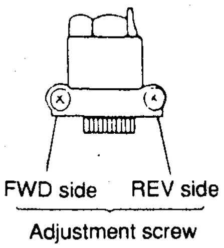
3. Mode : Playback


test tape
P-4-A100
(10kHz, −10dB)
main board
CN403
Pin ③ (L-CH)
oscilloscope
Pin ② (GND)
set
L
R
V
M
Pin ① (R-CH)


Waveform of oscilloscope
in phase
45°
90°
135°
180°
good
wrong

4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location : Record/Playback Head (Deck A and B)


FWD side
REV side
Adjustment screw

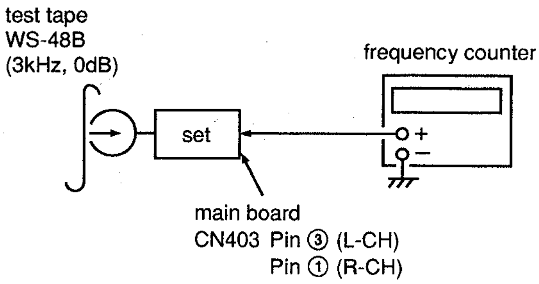
Tape Speed Adjustment DECK A DECK B

Note : Start the TAPE SPEED adjustment as below after setting the test mode.
The tape speed can be changed with the HIGH SPEED DUBBING button during the test mode.

Method :

1. Turn power switch.
2. Press the DISPLAY/DEMO button, MENU 1 button and TUNER/BAND button simultaneously.

Procedure :
Mode : Playback


test tape
WS-48B
(3kHz, 0dB)
frequency counter
set
+
−
main board
CN403 Pin ③ (L-CH)
Pin ① (R-CH)

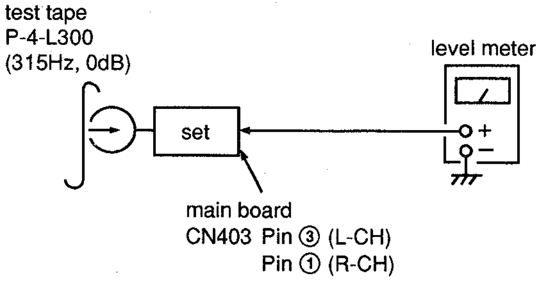
1. Insert the WS-48B into the deck A to playback.
2. Press the HIGH SPEED DUBBING button. Then at HIGH SPEED mode.
3. Adjust the RV652 on the MD board so that the frequency counter reading becomes 6,000 ± 30 Hz.
4. Press the HIGH SPEED DUBBING button again to be set the NORMAL SPEED mode.
5. Set to the playback mode.
6. Adjust the RV651 on the MD board so that the frequency counter reading becomes 3,000 ± 15 Hz.

Frequency difference between deck A and deck B the beginning of the tape should be within ± 1.5%.

Adjustment Location : MD board

Playback Level Adjustment DECK A DECK B

Procedure :
Mode : Playback


test tape
P-4-L300
(315Hz, 0dB)
level meter
set
+
−
main board
CN403 Pin ③ (L-CH)
Pin ① (R-CH)

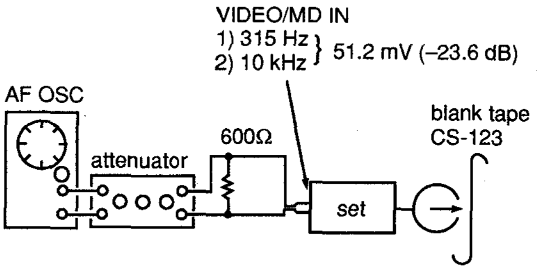
Deck A is RV311 (L-CH) and RV411 (R-CH),
deck B is RV301 (L-CH) and RV401 (R-CH)
so that adjustment within adjustment level as follows.

Adjustment level :
CN403 playback level :
301.5 to 338.3 mV (−8.2 to −7.2 dB)
level difference between the channels : within ±0.5 dB
Adjustment Location : MD board

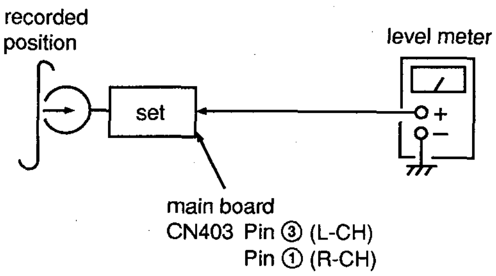
Record Bias Current Adjustment **DECK B**

Procedure :

1. Set function to VIDEO.
2. Mode : record


VIDEO/MD IN
1) 315 Hz
2) 10 kHz } 51.2 mV (–23.6 dB)
AF OSC
attenuator
600Ω
set
blank tape
CS-123

3. Mode : Playback


recorded position
set
level meter
+
–
main board
CN403 Pin ③ (L-CH)
Pin ① (R-CH)

4. Confirm playback the signal recorded in step 2 become adjustment level as follows.
   If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the MD board to repeat steps 2 and 3.

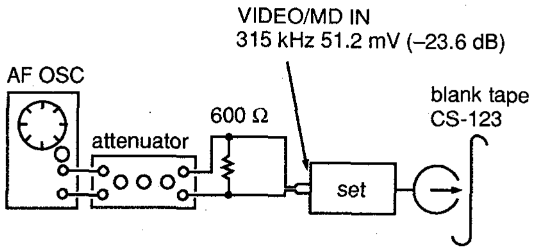
Adjustment level : The playback output of 10 kHz level difference against 315 Hz reference should be ± 0.5 dB.

Adjustment Location : MD board

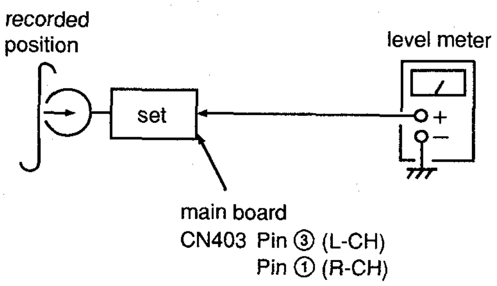
Record Level Adjustment **DECK B**

Procedure :

1. Set function to VIDEO.
2. Mode: record


VIDEO/MD IN
315 kHz 51.2 mV (–23.6 dB)
AF OSC
attenuator
600 Ω
set
blank tape
CS-123

3. Mode: Playback


recorded position
set
level meter
+
–
main board
CN403 Pin ③ (L-CH)
Pin ① (R-CH)

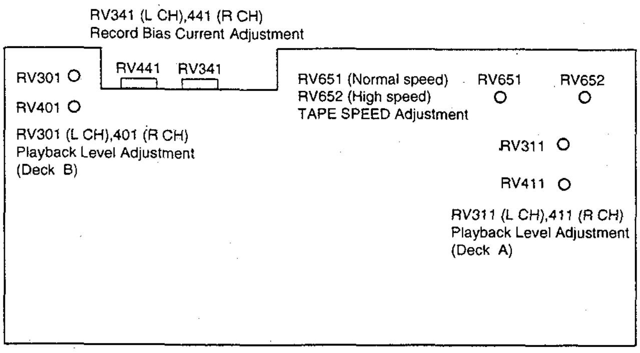
4. Confirm playback the signal recorded in step 2 become adjustment level as follows.
   If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the main board to repeat steps 2 and 3.

Adjustment level :
CN403 PB level : 47.3 to 53.1 mV (–24.3 to –23.3 dB)

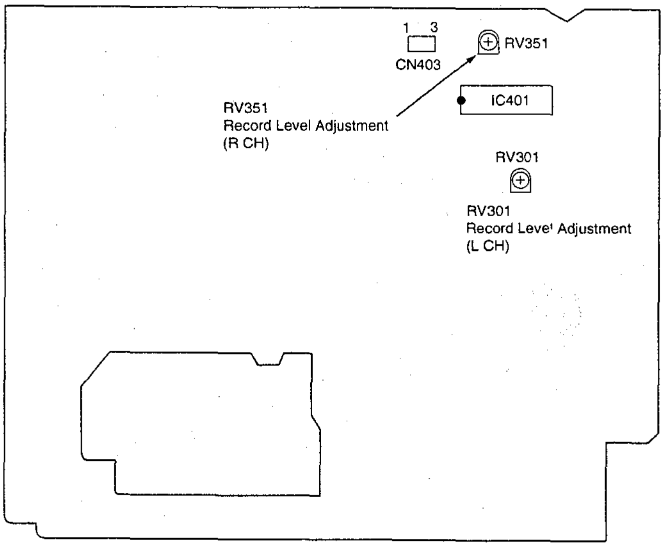
Adjustment Location : MAIN board

Adjustment Location :

[MD BOARD] (Conductor Side)


RV341 (L CH),441 (R CH)
Record Bias Current Adjustment
RV301
RV441
RV341
RV401
RV651 (Normal speed)
RV652 (High speed)
TAPE SPEED Adjustment
RV651
RV652
RV301 (L CH),401 (R CH)
Playback Level Adjustment
(Deck B)
RV311
RV411
RV311 (L CH),411 (R CH)
Playback Level Adjustment
(Deck A)

[MAIN BOARD] (Component Side)


1 3
CN403
RV351
IC401
RV351
Record Level Adjustment
(R CH)
RV301
RV301
Record Level Adjustment
(L CH)

6-2. IC PIN FUNCTION

• IC500 GRAPHIC CONTROL (ASD0204-012-3BA)

Pin No.	Pin Name	I/O	Function
1	VDD	–	+5V
2–9	LED8–LED1	O	LED drive signal output.
10	$\overline{\text{RESET}}$	I	Reset signal input.
11	X2	O	X'tal (5 MHz).
12	X1	I	
13	IC (Vpp)	–	GND
14	XT2	I	Not used. (Open)
15	JOG B	I	MULTI JOG STATION (S562) encoder signal input.
16	VDD	–	+5V
17, 18	LED10, 9	O	LED drive signal output.
19	KEY SEL	O	Key select control.
20	VOL B	I	Volume encoder signal input.
21	REQ. GM	I/O	Reguest signal from/to master control.
22	CLK MG	I	Serial clock input.
23	DATA GM	O	Serial data output.
24	DATA MG	I	Serial data input.
25	AVss	–	GND
26–29	SPEANA 4–1	I	Spectram analizer signal input.
30–33	KEY 4–1	I	Key matrix input.
34	AVDD	–	+5V
35	AVREF	–	
36	VOL A	I	Volume encoder signal input.
37	JOG A	I	MULTI JOG STATION (S562) encoder signal input.
38	RDY MG	I	Ready signal from master control.
39	SIRCS	I	SIRCS signal input.
40	Vss	–	GND
41	DOOR. SW	O	LED drive signal output.
42	LED SELECT	O	LED select signal output.
43–45	LED13–11	O	LED drive signal output.
46	VDD	–	+5V
47–50	LEDS7–4	O	Not used.
51–53	LEDS3–1	O	LED drive signal output.
54–78	SEG32–8	O	FL segment signal output.
79	V. LOAD	–	–25V for FL
80–86	SEG7–1	O	FL segment signal output.
87–100	GR14–1	O	FL grid signal output.

- Abbreviation

  FL : FLUORESCENT INDICATOR TUBE
  GND : Ground

• IC701 MASTER CONTROL (TMP87CP64YF)

Pin No.	Pin Name	I/O	Function
1	Vss	–	GND
2	XOUT	O	X'tal (10 MHz).
3	XIN	I	
4	RESET	I	Reset signal input.
5	XOUT	O	X'tal for clock (32.768 kHz)
6	XIN	I	
7	GND (test)	–	GND
8	AC CUT	I	Back up signal input.
9	SUPER WOOFER ON	O	Not used. (Connected to GND)
10	ST-MUTE ON	O	Mute signal output for tuner.
11	180-A-PLAY	I	Tape detection signal input. (Not used) (Connected to GND)
12	180-B-PLAY	I	
13	180-B-REC	I	
14	CLK CHK	I	Not used.
15	UP-SW	I	Disc table up detect. (Not used)
16	IN-SW	I	Not used.
17	ENCODER-0	I	Disctray address detect encoder input.
18	ENCODER-1	I	
19	ENCODER-2	I	
20	OUT SW OPEN	I	Out switch signal input.
21	LOAD IN	O	Loading motor control signal output.
22	LOAD OUT	O	
23	TBL-L	O	Table motor control signal output.
24	TBL-R	O	
25	SCOR	I	Sub-code sync signal input.
26	TBL-SENS	I	CD Table sensor signal input.
27	RDS INT	I	RDS data start input. (Connected to GND)
28	RDS DATA	I	RDS data output. (Connected to GND)
29	DF LAT	O	Latch signal for digital filter.
30	SENS	I	Table sence signal input.
31	XRST	O	Reset signal output for CD.
32	MG-RDY	O	Ready signal to graphic control.
33	ADJ	I	Test mode input.
34	GM-REQ	I	Request signal from graphic control.
35	MG-CLK	O	Clock signal to graphic control.
36	GM-DATA	I	Data input from graphic control.
37	MG-DATA	O	Data output to graphic control.
38	CD-CLK	O	Clock output. Serial bus line.
39	ADJ-2	I	Test mode input.
40	CD-DATA	O	Data output. Serial bus line.

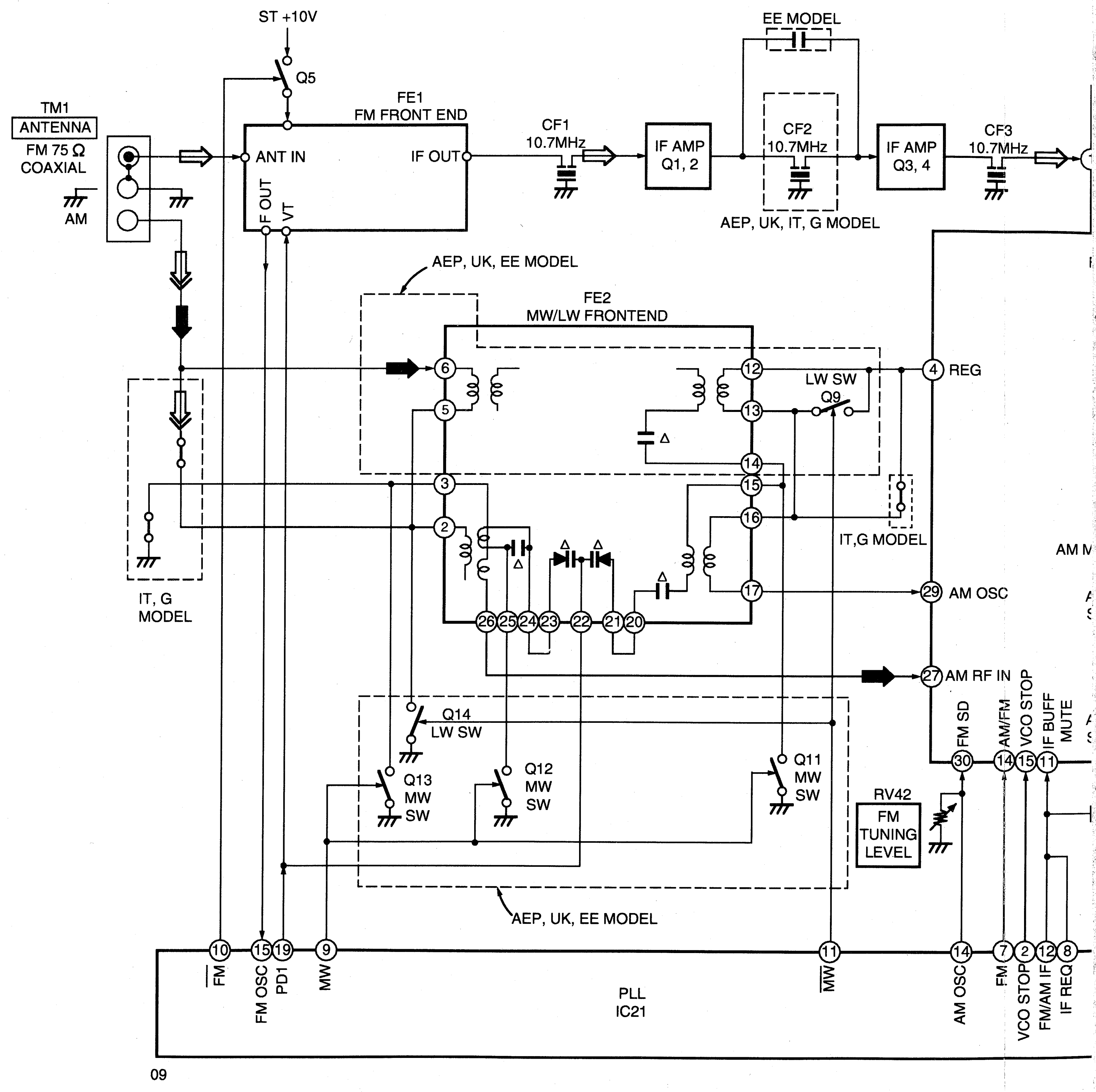
- Abbreviation
  GND : Ground

Pin No.	Pin Name	I/O	Function
41	AUB IN	I	Audio bus in/output. (Open)
42	AUB OUT	O	
43	FOCUS SW	O	Focus switching signal output,.
44	SQ-CLK	O	Subcode Q data read clock output.
45	SQ-DATA	I	Subcode Q data input.
46	X-LAT	O	Latch signal digital signal processor.
47	TEST	I	Test land.
48	VAREF	I	Analog reference voltage input.
49	VAss	–	GND
50	Vss	–	
51	VDD	–	+5V
52	SPEC	I	Destination detection setting input.
53	DESTINATION	I	
54	DISC SENS	I	Not used. (Connected to GND)
55	TC RELAY	O	REC/PB select signal output.
56	A-SHUT	I	Control signal input from deck.
57	B-SHUT	I	
58	B-HALF	I	
59	A-HALF	I	
60	220-A-PLAY	I	
61	220-B-PLAY	I	
62	62427 LAT	O	PLL latch output.
63	K-CON-LAT	O	Not used.
64	VOL LAT (AV)	O	Latch signal for electrical volume. (Not used) (Open)
65	REAR SP RELAY B	O	Not used. (Open)
66	FRONT SP RELAY C	O	
67	$\overline{\text{POWER ON}}$	O	Power on signal output.
68	CD POWER	O	CD power control signal output.
69	$\overline{\text{PROLOG LAT}}$	O	Not used. (Open)
70	$\overline{\text{MUTE}}$	O	Mute signal for AMP.
71	COM CLK	O	PLL clock output.
72	COM DIN	I	PLL data input.
73	COM DATA	O	PLL data output.
74	$\overline{\text{K CON ON}}$	O	Not used. (Open)
75	LIDDED LED	O	Disc No. LED drive signal output. (Not used) (Open)
76	$\overline{\text{PROLOG ON}}$	O	PRO LOGIC control output.
77	DBFB-HIGH	O	DBFB switching signal output.
78	$\overline{\text{URG STB STDBY}}$	I	Not used.
79	$\overline{\text{URG STB ON}}$	O	
80	$\overline{\text{TC A}}$	O	Deck A, B select output.

Pin No.	Pin Name	I/O	Function
81	NORM	O	NORMAL/HIGH control signal output.
82	BIAS OFF	O	Bias oscillation output.
83	REC MUTE	O	Mute output.
84	NR OFF	O	Dolby ON/OFF signal output.
85	PB	O	REC/PB control signal output.
86	PASS. AMP/DOLBY	O	Dolby switching signal output.
87	LINE MUTE ON	O	Mute signal output for deck.
88	CAP. M-HIGH	O	Capstan motor control signal output.
89	A-TRG	O	Trigger motor control signal output.
90	B-TRG	O	
91	TRG LOW	O	Trigger motor high/low control signal output.
92	CAP M ON	O	Capstan motor ON/OFF control signal output.
93	STEREO	I	Stereo detection signal from tuner.
94	TUNED	I	Tuned detection signal from tuner.
95	ST-CE	O	Latch signal output for tuner.
96	DELAY SEL MIC	O	Not used. (Connected to GND)
97	DELAY ON	O	
98	DELAY LEVEL A	O	
99	DELAY LEVEL B	O	
100	VDD	–	+5V

6-3. BLOCK DIAGRAMS

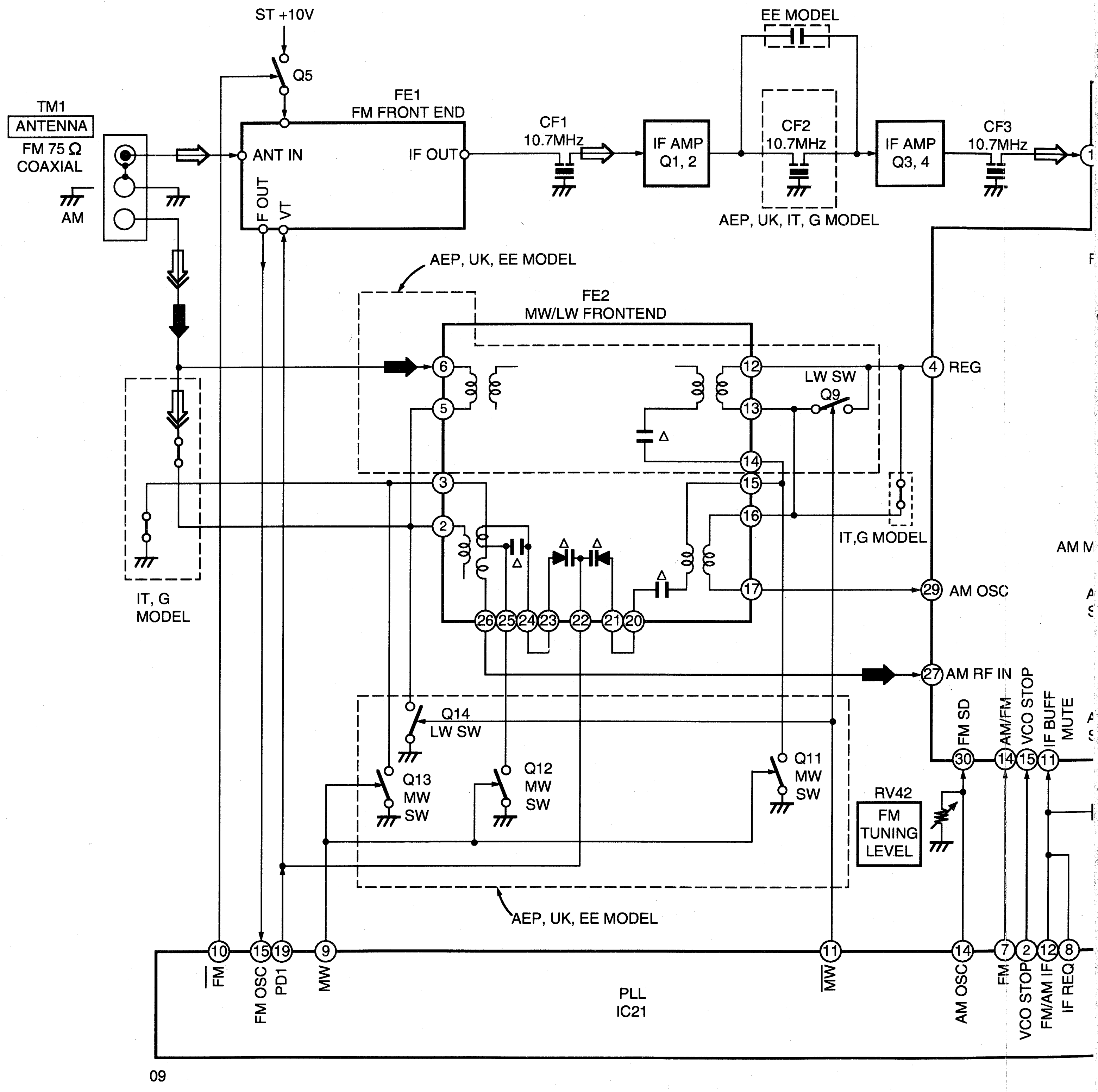
— TUNER SECTION — (AEP, UK, G, IT, EE MODELS)


ST +10V
Q5
EE MODEL
TM1
ANTENNA
FM 75 Ω
COAXIAL
AM
FE1
FM FRONT END
ANT IN
IF OUT
F OUT
VT
CF1
10.7MHz
IF AMP
Q1, 2
CF2
10.7MHz
AEP, UK, IT, G MODEL
IF AMP
Q3, 4
CF3
10.7MHz
AEP, UK, EE MODEL
FE2
MW/LW FRONTEND
LW SW
Q9
REG
IT,G MODEL
IT, G
MODEL
AM OSC
AM RF IN
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
Q14
LW SW
Q13
MW
SW
Q12
MW
SW
Q11
MW
SW
RV42
FM
TUNING
LEVEL
AEP, UK, EE MODEL
FM
FM OSC
PD1
MW
MW
PLL
IC21
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
AM M
09

Pin No.	Pin Name	I/O	Function
81	$\overline{\text{NORM}}$	O	NORMAL/HIGH control signal output.
82	$\overline{\text{BIAS OFF}}$	O	Bias oscillation output.
83	$\overline{\text{REC MUTE}}$	O	Mute output.
84	$\overline{\text{NR OFF}}$	O	Dolby ON/OFF signal output.
85	$\overline{\text{PB}}$	O	REC/PB control signal output.
86	$\overline{\text{PASS. AMP/DOLBY}}$	O	Dolby switching signal output.
87	$\overline{\text{LINE MUTE ON}}$	O	Mute signal output for deck.
88	$\overline{\text{CAP. M-HIGH}}$	O	Capstan motor control signal output.
89	A-TRG	O	Trigger motor control signal output.
90	B-TRG	O	
91	$\overline{\text{TRG LOW}}$	O	Trigger motor high/low control signal output.
92	$\overline{\text{CAP M ON}}$	O	Capstan motor ON/OFF control signal output.
93	$\overline{\text{STEREO}}$	I	Stereo detection signal from tuner.
94	$\overline{\text{TUNED}}$	I	Tuned detection signal from tuner.
95	ST-CE	O	Latch signal output for tuner.
96	$\overline{\text{DELAY SEL MIC}}$	O	Not used. (Connected to GND)
97	$\overline{\text{DELAY ON}}$	O	
98	DELAY LEVEL A	O	
99	DELAY LEVEL B	O	
100	VDD	–	+5V

6-3. BLOCK DIAGRAMS

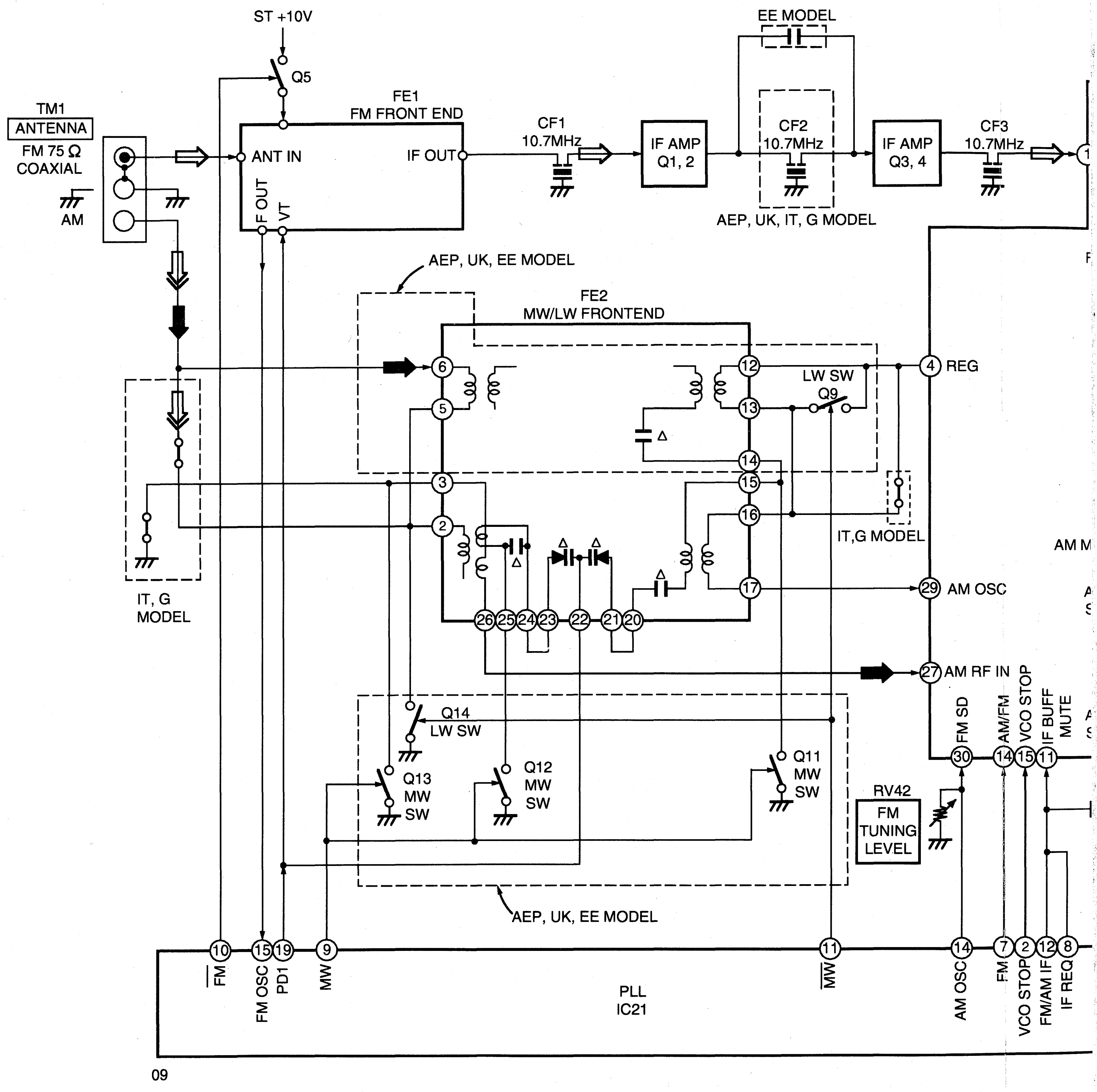
— TUNER SECTION — (AEP, UK, G, IT, EE MODELS)


ST +10V
Q5
EE MODEL
TM1
ANTENNA
FM 75 Ω
COAXIAL
AM
FE1
FM FRONT END
ANT IN
IF OUT
IF OUT
VT
CF1
10.7MHz
IF AMP
Q1, 2
CF2
10.7MHz
AEP, UK, IT, G MODEL
IF AMP
Q3, 4
CF3
10.7MHz
AEP, UK, EE MODEL
FE2
MW/LW FRONTEND
LW SW
Q9
REG
IT,G MODEL
IT, G
MODEL
AM OSC
AM RF IN
Q14
LW SW
Q13
MW
SW
Q12
MW
SW
Q11
MW
SW
RV42
FM
TUNING
LEVEL
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
AEP, UK, EE MODEL
FM
FM OSC
PD1
MW
PLL
IC21
MW
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
AM M
09

Pin No.	Pin Name	I/O	Function
81	NORM	O	NORMAL/HIGH control signal output.
82	BIAS OFF	O	Bias oscillation output.
83	REC MUTE	O	Mute output.
84	NR OFF	O	Dolby ON/OFF signal output.
85	PB	O	REC/PB control signal output.
86	PASS. AMP/DOLBY	O	Dolby switching signal output.
87	LINE MUTE ON	O	Mute signal output for deck.
88	CAP. M-HIGH	O	Capstan motor control signal output.
89	A-TRG	O	Trigger motor control signal output.
90	B-TRG	O	
91	TRG LOW	O	Trigger motor high/low control signal output.
92	CAP M ON	O	Capstan motor ON/OFF control signal output.
93	STEREO	I	Stereo detection signal from tuner.
94	TUNED	I	Tuned detection signal from tuner.
95	ST-CE	O	Latch signal output for tuner.
96	DELAY SEL MIC	O	Not used. (Connected to GND)
97	DELAY ON	O	
98	DELAY LEVEL A	O	
99	DELAY LEVEL B	O	
100	VDD	–	+5V

6-3. BLOCK DIAGRAMS

— TUNER SECTION — (AEP, UK, G, IT, EE MODELS)


ST +10V
Q5
EE MODEL
TM1
ANTENNA
FM 75 Ω
COAXIAL
AM
FE1
FM FRONT END
ANT IN
IF OUT
F OUT
VT
CF1
10.7MHz
IF AMP
Q1, 2
CF2
10.7MHz
AEP, UK, IT, G MODEL
IF AMP
Q3, 4
CF3
10.7MHz
AEP, UK, EE MODEL
FE2
MW/LW FRONTEND
LW SW
Q9
REG
IT,G MODEL
IT, G
MODEL
AM OSC
AM RF IN
Q14
LW SW
Q13
MW
SW
Q12
MW
SW
Q11
MW
SW
AEP, UK, EE MODEL
RV42
FM
TUNING
LEVEL
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
FM
FM OSC
PD1
MW
PLL
IC21
MW
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
AM M
09

Pin No.	Pin Name	I/O	Function
81	NORM	O	NORMAL/HIGH control signal output.
82	BIAS OFF	O	Bias oscillation output.
83	REC MUTE	O	Mute output.
84	NR OFF	O	Dolby ON/OFF signal output.
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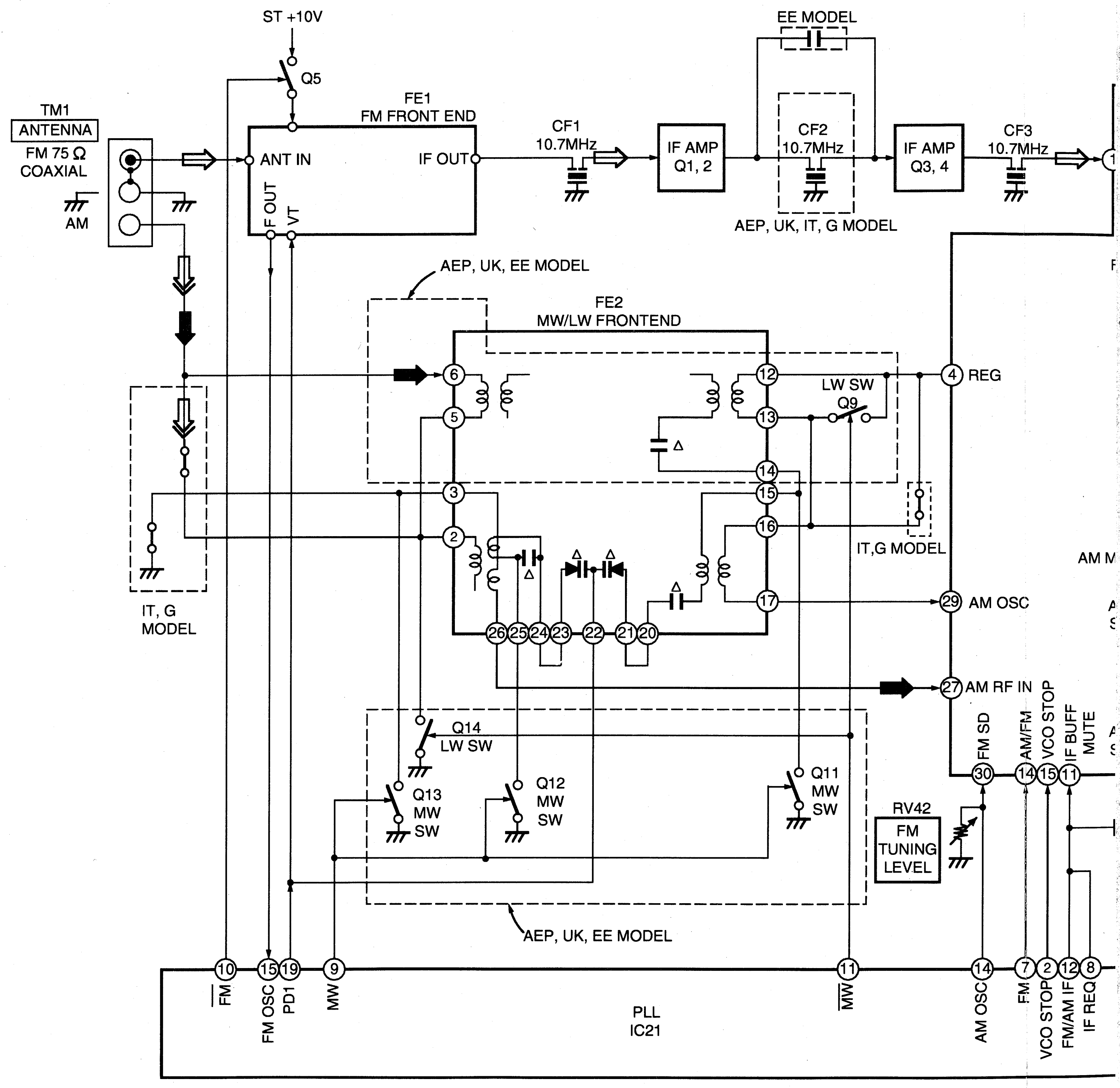
86	PASS. AMP/DOLBY	O	Dolby switching signal output.
87	LINE MUTE ON	O	Mute signal output for deck.
88	CAP. M-HIGH	O	Capstan motor control signal output.
89	A-TRG	O	Trigger motor control signal output.
90	B-TRG	O	
91	TRG LOW	O	Trigger motor high/low control signal output.
92	CAP M ON	O	Capstan motor ON/OFF control signal output.
93	STEREO	I	Stereo detection signal from tuner.
94	TUNED	I	Tuned detection signal from tuner.
95	ST-CE	O	Latch signal output for tuner.
96	DELAY SEL MIC	O	Not used. (Connected to GND)
97	DELAY ON	O	
98	DELAY LEVEL A	O	
99	DELAY LEVEL B	O	
100	VDD	–	+5V

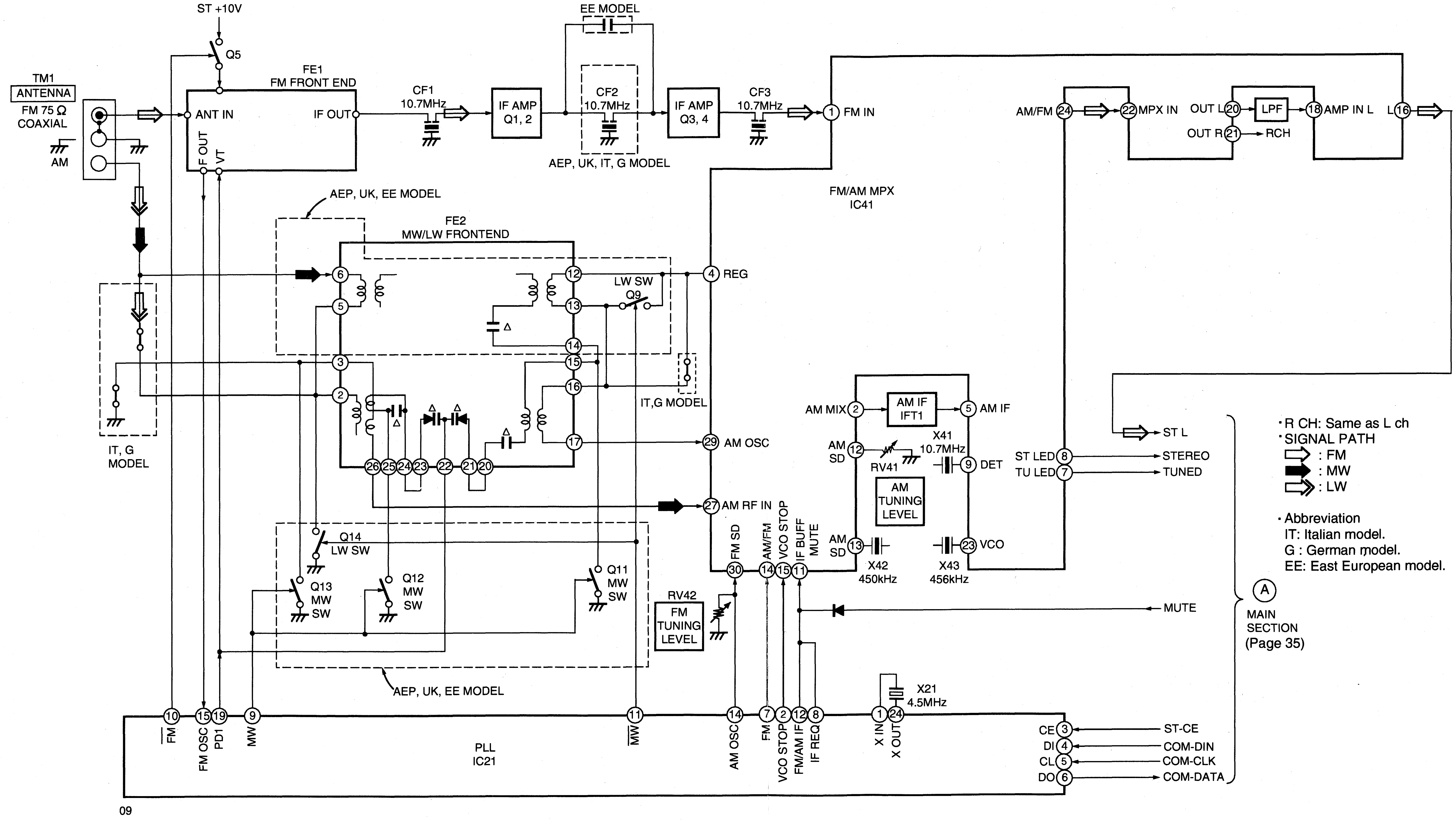
6-3. BLOCK DIAGRAMS

— TUNER SECTION — (AEP, UK, G, IT, EE MODELS)

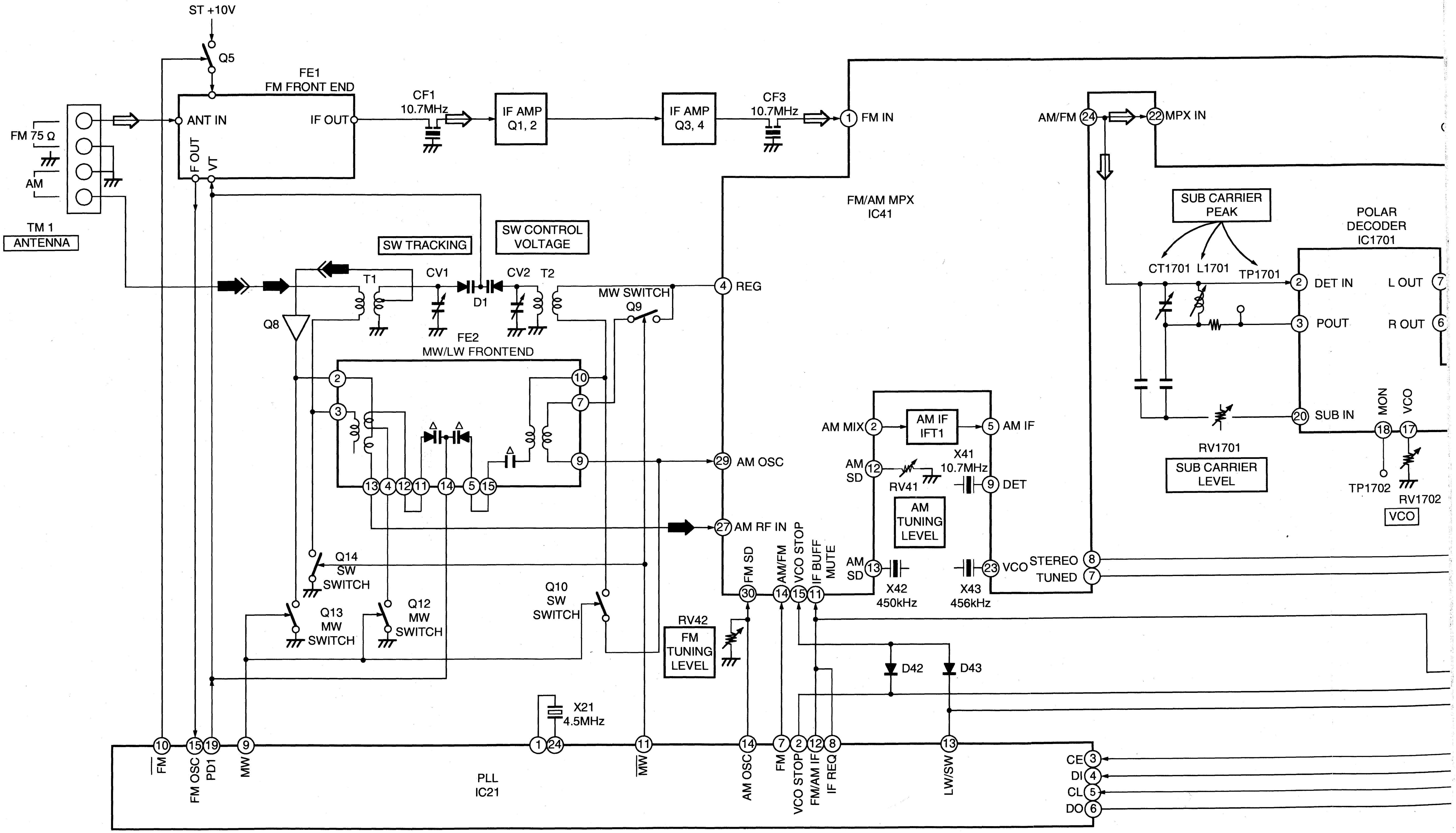

ST +10V
Q5
EE MODEL
TM1
ANTENNA
FM 75 Ω
COAXIAL
AM
FE1
FM FRONT END
ANT IN
IF OUT
F OUT
VT
CF1
10.7MHz
IF AMP
Q1, 2
CF2
10.7MHz
AEP, UK, IT, G MODEL
IF AMP
Q3, 4
CF3
10.7MHz
AEP, UK, EE MODEL
FE2
MW/LW FRONTEND
LW SW
Q9
REG
IT,G MODEL
IT, G
MODEL
AM OSC
AM RF IN
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
Q14
LW SW
Q13
MW
SW
Q12
MW
SW
Q11
MW
SW
RV42
FM
TUNING
LEVEL
AEP, UK, EE MODEL
FM
FM OSC
PD1
MW
MW
PLL
IC21
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
09

6-3. BLOCK DIAGRAMS

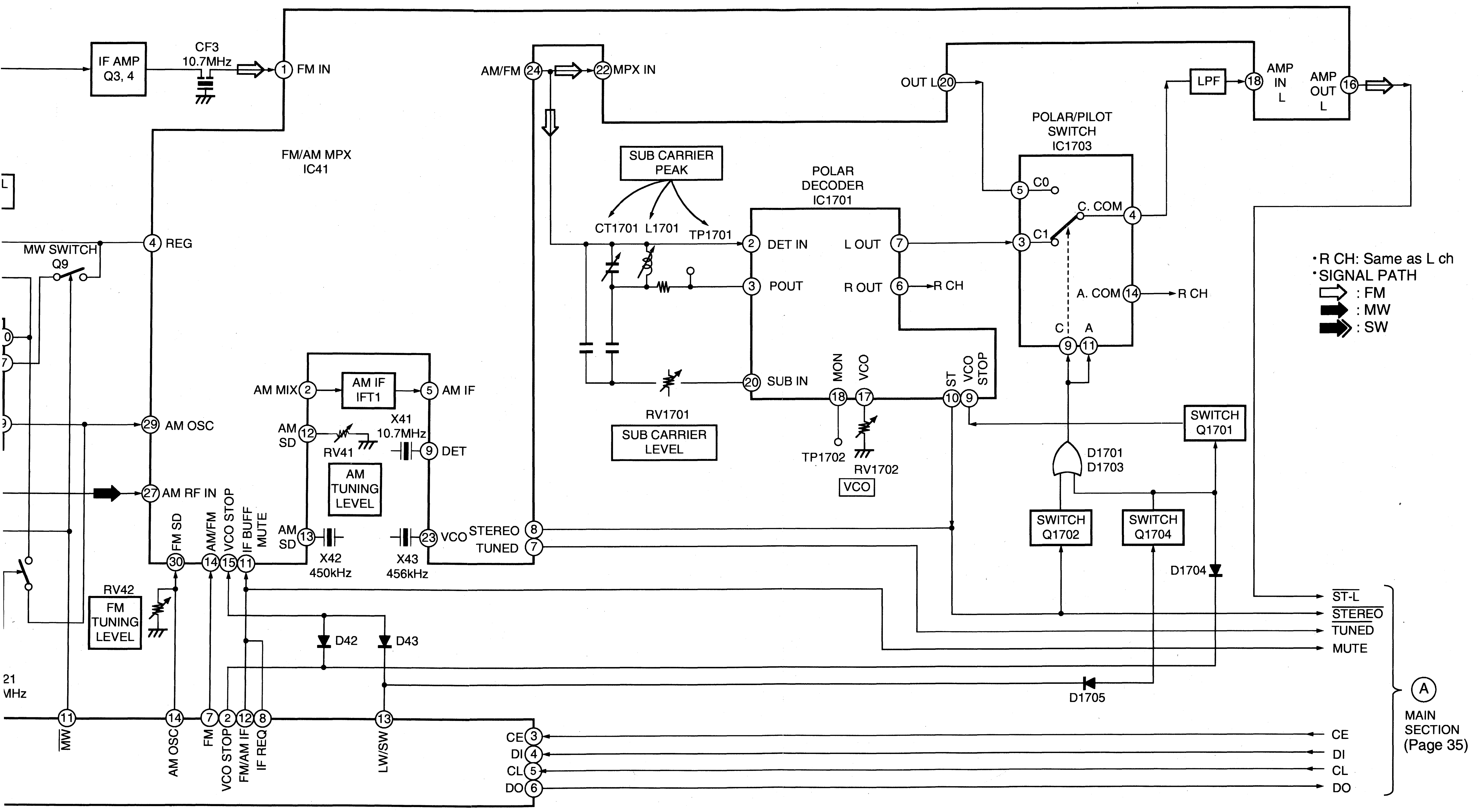
— TUNER SECTION — (AEP, UK, G, IT, EE MODELS)


ST +10V
Q5
EE MODEL
TM1
ANTENNA
FM 75 Ω
COAXIAL
AM
FE1
FM FRONT END
ANT IN
IF OUT
F OUT
VT
CF1
10.7MHz
IF AMP
Q1, 2
CF2
10.7MHz
AEP, UK, IT, G MODEL
IF AMP
Q3, 4
CF3
10.7MHz
1 FM IN
FM/AM MPX
IC41
AM/FM 24
22 MPX IN
OUT L 20
LPF
18 AMP IN L
L 16
OUT R 21
RCH
AEP, UK, EE MODEL
FE2
MW/LW FRONTEND
LW SW
Q9
4 REG
IT, G
MODEL
IT,G MODEL
29 AM OSC
27 AM RF IN
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
AM MIX 2
AM IF
IFT1
5 AM IF
AM SD 12
RV41
X41
10.7MHz
9 DET
AM
TUNING
LEVEL
AM SD 13
X42
450kHz
X43
456kHz
23 VCO
ST LED 8
TU LED 7
ST L
STEREO
TUNED
MUTE
Q14
LW SW
Q13
MW
SW
Q12
MW
SW
Q11
MW
SW
RV42
FM
TUNING
LEVEL
AEP, UK, EE MODEL
X21
4.5MHz
10 FM
15 FM OSC
19 PD1
9 MW
11 MW
PLL
IC21
14 AM OSC
7 FM
2 VCO STOP
12 FM/AM IF
8 IF REQ
1 X IN
24 X OUT
CE 3
DI 4
CL 5
DO 6
ST-CE
COM-DIN
COM-CLK
COM-DATA
·R CH: Same as L ch
·SIGNAL PATH
⇨ : FM
➡ : MW
⇛ : LW
· Abbreviation
IT: Italian model.
G : German model.
EE: East European model.
A
MAIN
SECTION
(Page 35)
09

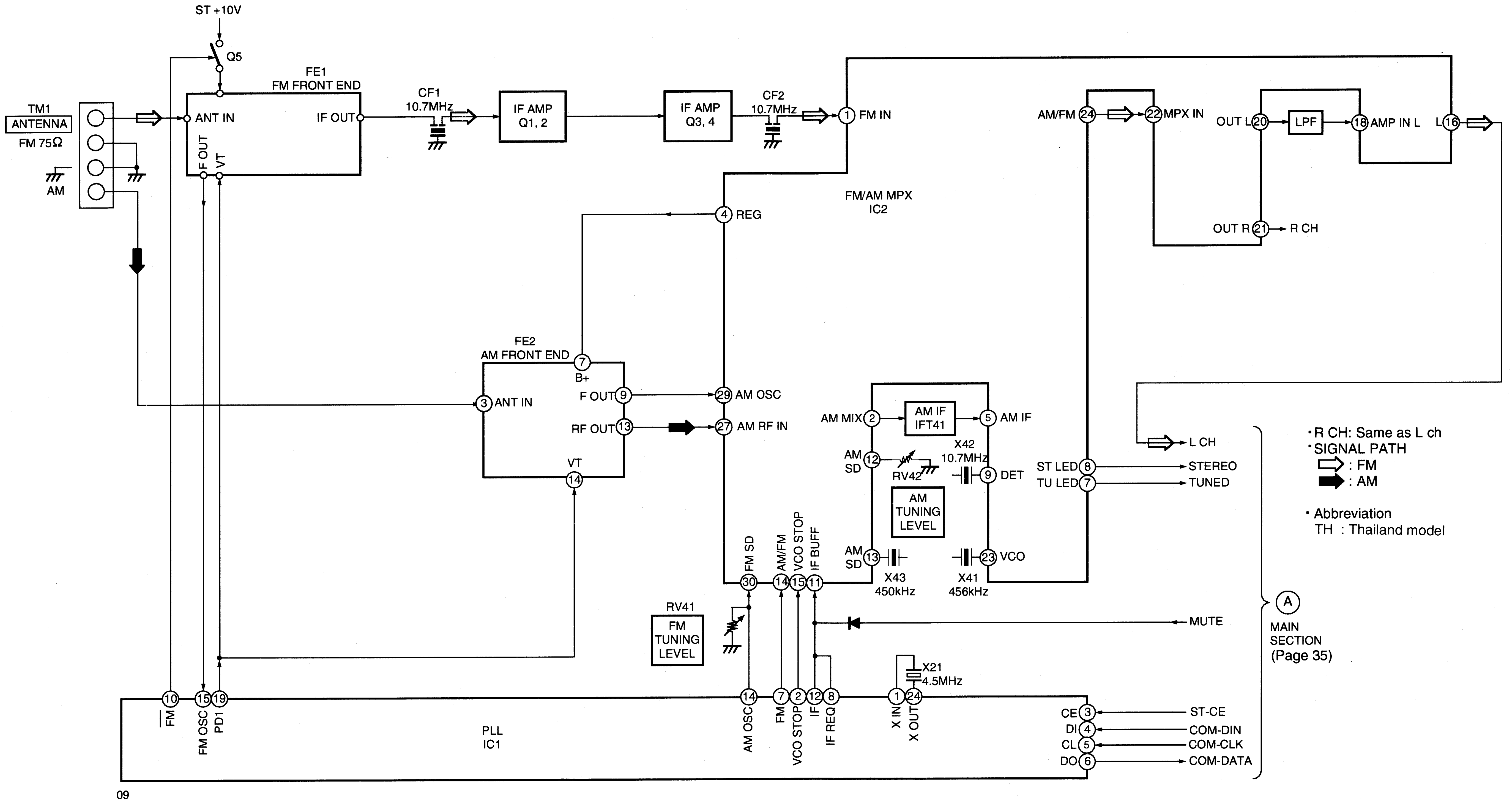
— TUNER SECTION — (CIS MODEL)


ST +10V
Q5
FE1
FM FRONT END
ANT IN
IF OUT
F OUT
VT
FM 75 Ω
AM
TM 1
ANTENNA
CF1
10.7MHz
IF AMP
Q1, 2
IF AMP
Q3, 4
CF3
10.7MHz
FM IN
FM/AM MPX
IC41
AM/FM
MPX IN
SUB CARRIER
PEAK
CT1701
L1701
TP1701
POLAR
DECODER
IC1701
DET IN
L OUT
POUT
R OUT
SUB IN
MON
VCO
RV1701
SUB CARRIER
LEVEL
TP1702
RV1702
VCO
SW TRACKING
SW CONTROL
VOLTAGE
T1
CV1
D1
CV2
T2
MW SWITCH
Q9
Q8
FE2
MW/LW FRONTEND
REG
AM OSC
AM RF IN
AM MIX
AM IF
IFT1
AM IF
AM
SD
RV41
X41
10.7MHz
DET
AM
TUNING
LEVEL
AM
SD
X42
450kHz
X43
456kHz
VCO
STEREO
TUNED
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
Q14
SW
SWITCH
Q13
MW
SWITCH
Q12
MW
SWITCH
Q10
SW
SWITCH
RV42
FM
TUNING
LEVEL
D42
D43
X21
4.5MHz
FM
FM OSC
PD1
MW
PLL
IC21
MW
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
LW/SW
CE
DI
CL
DO

09

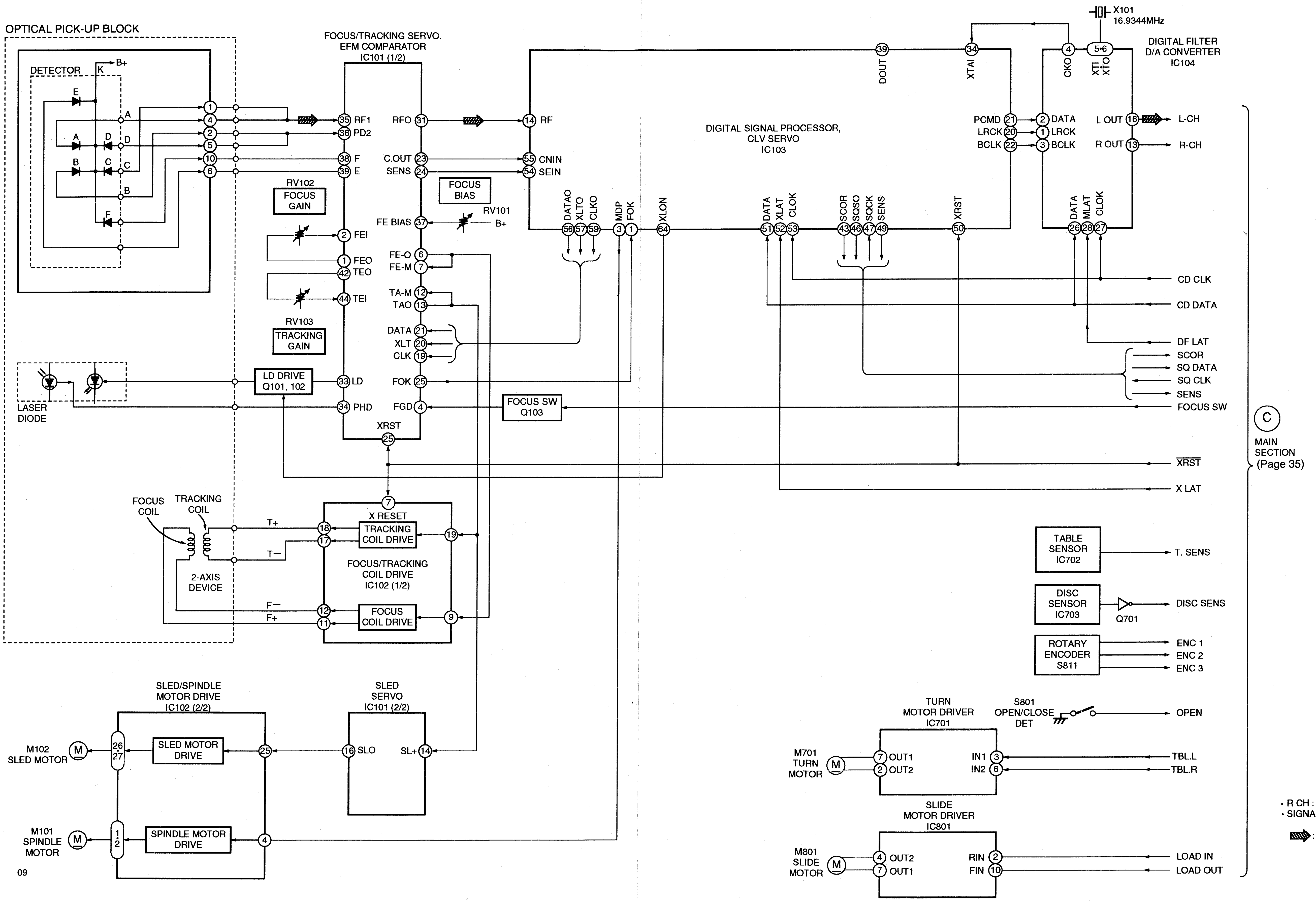

IF AMP
Q3, 4
CF3
10.7MHz
FM IN
FM/AM MPX
IC41
AM/FM
MPX IN
OUT L
LPF
AMP IN L
AMP OUT L
POLAR/PILOT SWITCH
IC1703
SUB CARRIER PEAK
CT1701
L1701
TP1701
POLAR DECODER
IC1701
DET IN
L OUT
POUT
R OUT
R CH
SUB IN
MON
VCO
ST
VCO STOP
C0
C. COM
C1
A. COM
C
A
REG
MW SWITCH
Q9
AM OSC
AM RF IN
AM MIX
AM IF
IFT1
AM SD
RV41
X41
10.7MHz
DET
AM TUNING LEVEL
AM SD
X42
450kHz
X43
456kHz
VCO
STEREO
TUNED
FM SD
AM/FM
VCO STOP
IF BUFF MUTE
RV1701
SUB CARRIER LEVEL
TP1702
RV1702
VCO
SWITCH
Q1701
D1701
D1703
SWITCH
Q1702
SWITCH
Q1704
D1704
RV42
FM TUNING LEVEL
D42
D43
D1705
21
MHz
MW
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
LW/SW
CE
DI
CL
DO
ST-L
STEREO
TUNED
MUTE
A
MAIN SECTION
(Page 35)
•R CH: Same as L ch
•SIGNAL PATH
⇨ : FM
➡ : MW
➡ : SW

— TUNER SECTION — (TH MODEL)


ST +10V
Q5
FE1
FM FRONT END
TM1
ANTENNA
FM 75Ω
AM
ANT IN
IF OUT
F OUT
VT
CF1
10.7MHz
IF AMP
Q1, 2
IF AMP
Q3, 4
CF2
10.7MHz
① FM IN
FM/AM MPX
IC2
④ REG
AM/FM ㉔
㉒ MPX IN
OUT L ⑳
LPF
⑱ AMP IN L
L ⑯
OUT R ㉑
R CH
FE2
AM FRONT END
⑦ B+
③ ANT IN
F OUT ⑨
RF OUT ⑬
VT ⑭
㉙ AM OSC
㉗ AM RF IN
AM MIX ②
AM IF
IFT41
⑤ AM IF
AM SD ⑫
RV42
X42
10.7MHz
⑨ DET
AM TUNING LEVEL
AM SD ⑬
X43
450kHz
X41
456kHz
㉓ VCO
ST LED ⑧
TU LED ⑦
L CH
STEREO
TUNED
FM SD ㉚
AM/FM ⑭
VCO STOP ⑮
IF BUFF ⑪
RV41
FM TUNING LEVEL
MUTE
X21
4.5MHz
⑩ FM
⑮ FM OSC
⑲ PD1
PLL
IC1
⑭ AM OSC
⑦ FM
② VCO STOP
⑫ IF
⑧ IF REQ
① X IN
㉔ X OUT
CE ③
DI ④
CL ⑤
DO ⑥
ST-CE
COM-DIN
COM-CLK
COM-DATA
Ⓐ
MAIN SECTION
(Page 35)
09

- R CH: Same as L ch
- SIGNAL PATH
  ⇨ : FM
  ➡ : AM
- Abbreviation
  TH : Thailand model

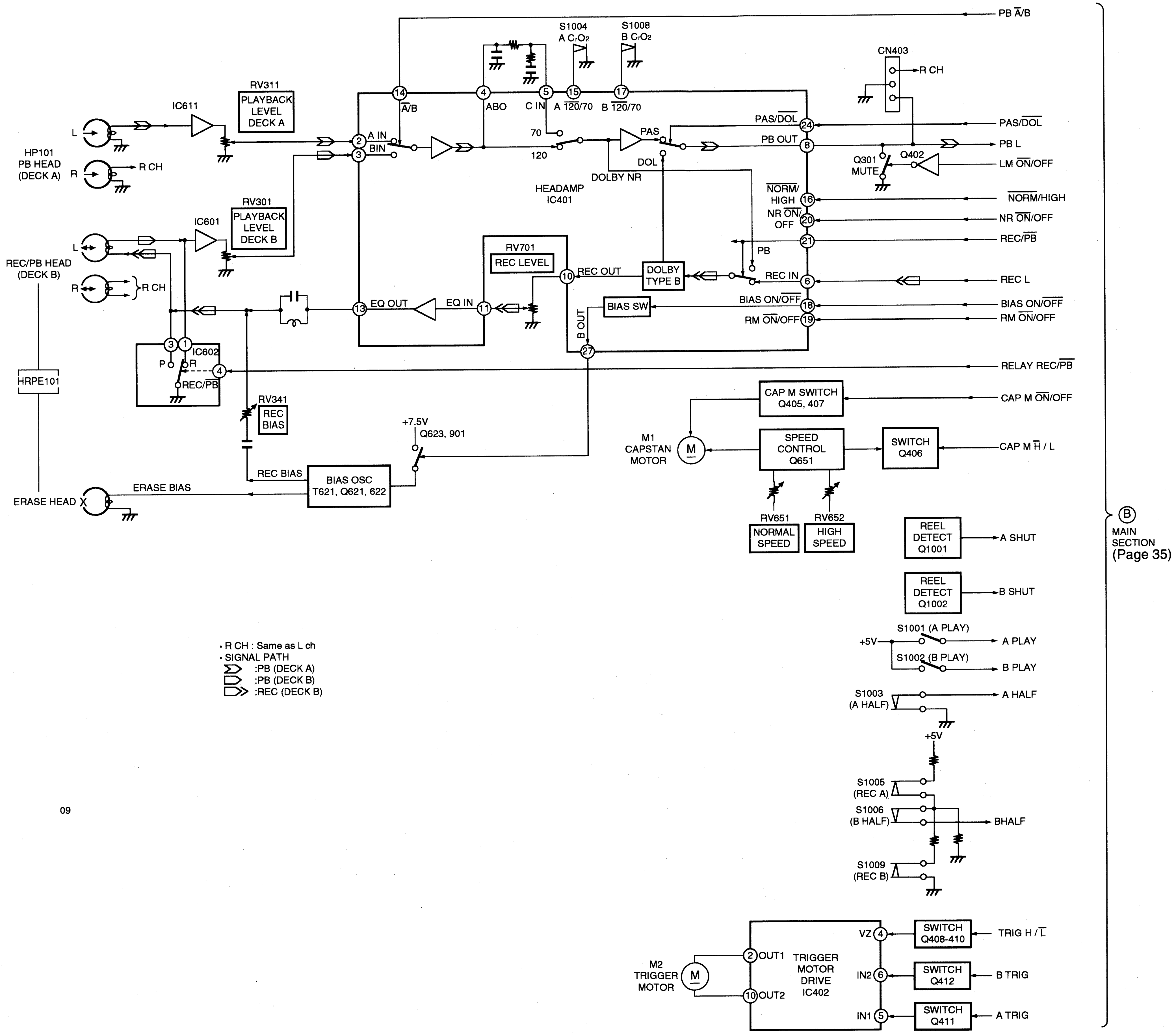
— CD SECTION —


OPTICAL PICK-UP BLOCK
DETECTOR
K
B+
E
A
D
B
C
F
LASER DIODE
FOCUS/TRACKING SERVO. EFM COMPARATOR IC101 (1/2)
RF1
PD2
F
E
RFO
C.OUT
SENS
RV102 FOCUS GAIN
FOCUS BIAS
RV101
B+
FE BIAS
FEI
FEO
TEO
TEI
FE-O
FE-M
TA-M
TAO
RV103 TRACKING GAIN
DATA
XLT
CLK
LD DRIVE Q101, 102
LD
PHD
FOK
FGD
FOCUS SW Q103
XRST
X101 16.9344MHz
DIGITAL FILTER D/A CONVERTER IC104
DOUT
XTAI
CKO
XTI XTO
RF
CNIN
SEIN
DIGITAL SIGNAL PROCESSOR, CLV SERVO IC103
PCMD
LRCK
BCLK
DATA
LRCK
BCLK
L OUT
R OUT
L-CH
R-CH
DATAO XLTO CLKO
MDP FOK
XLON
DATA XLAT CLOK
SCOR SQSO SQCK SENS
XRST
DATA MLAT CLOK
CD CLK
CD DATA
DF LAT
SCOR
SQ DATA
SQ CLK
SENS
FOCUS SW
XRST
X LAT
C
MAIN SECTION (Page 35)
FOCUS COIL
TRACKING COIL
T+
T−
2-AXIS DEVICE
F−
F+
X RESET
TRACKING COIL DRIVE
FOCUS/TRACKING COIL DRIVE IC102 (1/2)
FOCUS COIL DRIVE
TABLE SENSOR IC702
T. SENS
DISC SENSOR IC703
Q701
DISC SENS
ROTARY ENCODER S811
ENC 1
ENC 2
ENC 3
SLED/SPINDLE MOTOR DRIVE IC102 (2/2)
SLED MOTOR DRIVE
SPINDLE MOTOR DRIVE
M102 SLED MOTOR
M101 SPINDLE MOTOR
SLED SERVO IC101 (2/2)
SLO
SL+
TURN MOTOR DRIVER IC701
S801 OPEN/CLOSE DET
OPEN
M701 TURN MOTOR
OUT1
OUT2
IN1
IN2
TBL.L
TBL.R
SLIDE MOTOR DRIVER IC801
M801 SLIDE MOTOR
OUT2
OUT1
RIN
FIN
LOAD IN
LOAD OUT
09

- R CH : Same as L ch
- SIGNAL PATH

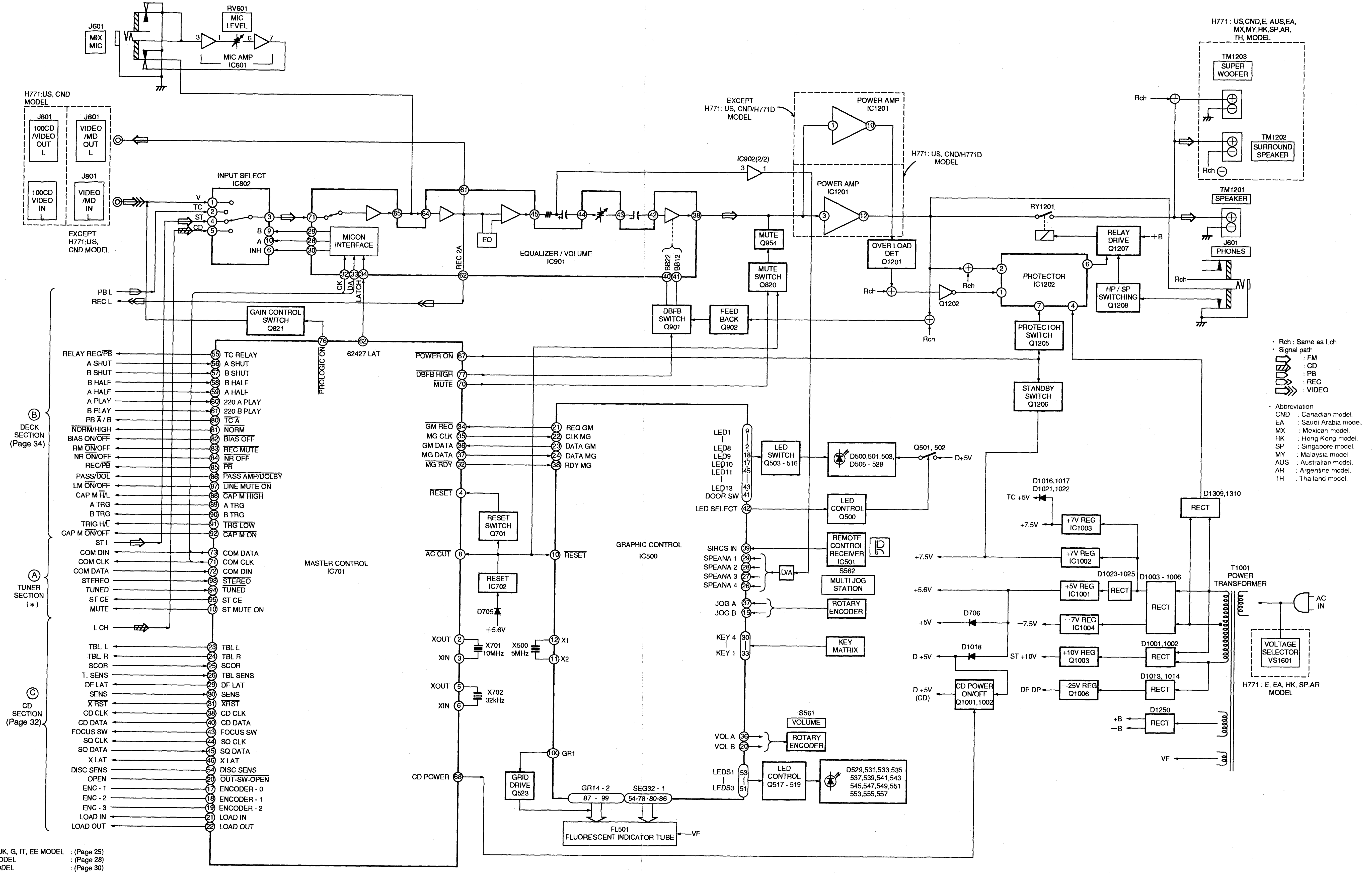
▨ : CD

— TC SECTION —


PB A/B
S1004
A CrO2
S1008
B CrO2
CN403
R CH
RV311
PLAYBACK LEVEL DECK A
IC611
L
R
HP101
PB HEAD
(DECK A)
R CH
14
A/B
4
ABO
5
C IN
15
A 120/70
17
B 120/70
PAS/DOL
24
PAS/DOL
A IN
2
BIN
3
70
120
PAS
PB OUT
8
PB L
DOL
DOLBY NR
Q301
MUTE
Q402
LM ON/OFF
HEADAMP
IC401
NORM/HIGH
16
NORM/HIGH
NR ON/OFF
20
NR ON/OFF
21
REC/PB
RV301
PLAYBACK LEVEL DECK B
IC601
REC/PB HEAD
(DECK B)
L
R
R CH
RV701
REC LEVEL
10
REC OUT
DOLBY TYPE B
PB
REC IN
6
REC L
BIAS ON/OFF
18
BIAS ON/OFF
BIAS SW
RM ON/OFF
19
RM ON/OFF
B OUT
27
13
EQ OUT
EQ IN
11
3
1
IC602
P
R
4
REC/PB
RELAY REC/PB
HRPE101
RV341
REC BIAS
+7.5V
Q623, 901
REC BIAS
BIAS OSC
T621, Q621, 622
ERASE BIAS
ERASE HEAD
CAP M SWITCH
Q405, 407
CAP M ON/OFF
M1
CAPSTAN
MOTOR
M
SPEED CONTROL
Q651
SWITCH
Q406
CAP M H / L
RV651
NORMAL SPEED
RV652
HIGH SPEED
REEL DETECT
Q1001
A SHUT
REEL DETECT
Q1002
B SHUT
S1001 (A PLAY)
+5V
A PLAY
S1002 (B PLAY)
B PLAY
S1003
(A HALF)
A HALF
+5V
S1005
(REC A)
S1006
(B HALF)
BHALF
S1009
(REC B)
B
MAIN SECTION
(Page 35)
09
M2
TRIGGER
MOTOR
M
2
OUT1
10
OUT2
TRIGGER MOTOR DRIVE
IC402
VZ
4
IN2
6
IN1
5
SWITCH
Q408-410
TRIG H/L
SWITCH
Q412
B TRIG
SWITCH
Q411
A TRIG

• R CH : Same as L ch
• SIGNAL PATH
⊐> :PB (DECK A)
⊐ :PB (DECK B)
⊐>> :REC (DECK B)

— MAIN SECTION —


J601
MIX MIC
RV601
MIC LEVEL
MIC AMP IC601
H771:US, CND MODEL
J801
100CD /VIDEO OUT L
VIDEO /MD OUT L
100CD VIDEO IN L
VIDEO /MD IN L
EXCEPT H771:US, CND MODEL
INPUT SELECT IC802
V
TC
ST
CD
B
A
INH
MICON INTERFACE
CK
DA
LATCH
EQ
EQUALIZER / VOLUME IC901
REC 2A
BB22
BB12
GAIN CONTROL SWITCH Q821
PROLOGIC ON
62427 LAT
DBFB SWITCH Q901
FEED BACK Q902
MUTE Q954
MUTE SWITCH Q820
IC902(2/2)
EXCEPT H771: US, CND/H771D MODEL
POWER AMP IC1201
H771: US, CND/H771D MODEL
OVER LOAD DET Q1201
RY1201
RELAY DRIVE Q1207
+B
PROTECTOR IC1202
HP / SP SWITCHING Q1208
PROTECTOR SWITCH Q1205
STANDBY SWITCH Q1206
Q1202
Rch
H771 : US,CND,E, AUS,EA, MX,MY,HK,SP,AR, TH, MODEL
TM1203 SUPER WOOFER
TM1202 SURROUND SPEAKER
TM1201 SPEAKER
J601 PHONES
PB L
REC L
RELAY REC/PB
A SHUT
B SHUT
B HALF
A HALF
A PLAY
B PLAY
PB A / B
NORM/HIGH
BIAS ON/OFF
RM ON/OFF
NR ON/OFF
REC/PB
PASS/DOL
LM ON/OFF
CAP M H/L
A TRG
B TRG
TRIG H/L
CAP M ON/OFF
ST L
Ⓑ DECK SECTION (Page 34)
COM DIN
COM CLK
COM DATA
STEREO
TUNED
ST CE
MUTE
Ⓐ TUNER SECTION (*)
L CH
TBL. L
TBL. R
SCOR
T. SENS
DF LAT
SENS
X RST
CD CLK
CD DATA
FOCUS SW
SQ CLK
SQ DATA
X LAT
DISC SENS
OPEN
ENC - 1
ENC - 2
ENC - 3
LOAD IN
LOAD OUT
Ⓒ CD SECTION (Page 32)
TC RELAY
A SHUT
B SHUT
B HALF
A HALF
220 A PLAY
220 B PLAY
TC A
NORM
BIAS OFF
REC MUTE
NR OFF
PB
PASS AMP/DOLBY
LINE MUTE ON
CAP M HIGH
A TRG
B TRG
TRG LOW
CAP M ON
COM DATA
COM CLK
COM DIN
STEREO
TUNED
ST CE
ST MUTE ON
TBL L
TBL R
SCOR
TBL SENS
DF LAT
SENS
XRST
CD CLK
CD DATA
FOCUS SW
SQ CLK
SQ DATA
X LAT
DISC SENS
OUT-SW-OPEN
ENCODER - 0
ENCODER - 1
ENCODER - 2
LOAD IN
LOAD OUT
MASTER CONTROL IC701
POWER ON
DBFB HIGH
MUTE
GM REQ
MG CLK
GM DATA
MG DATA
MG RDY
RESET
AC CUT
XOUT
XIN
CD POWER
RESET SWITCH Q701
RESET IC702
D705
+5.6V
X701 10MHz
X702 32kHz
X500 5MHz
X1
X2
GR1
GRID DRIVE Q523
GR14 - 2 87 - 99
SEG32 - 1 54-78-80-86
FL501 FLUORESCENT INDICATOR TUBE
VF
REQ GM
CLK MG
DATA GM
DATA MG
RDY MG
RESET
GRAPHIC CONTROL IC500
LED1
LED8
LED9
LED10
LED11
LED13
DOOR SW
LED SELECT
LED SWITCH Q503 - 516
D500,501,503, D505 - 528
Q501, 502
D+5V
LED CONTROL Q500
SIRCS IN
SPEANA 1
SPEANA 2
SPEANA 3
SPEANA 4
D/A
REMOTE CONTROL RECEIVER IC501
S562
MULTI JOG STATION
JOG A
JOG B
ROTARY ENCODER
KEY 4
KEY 1
KEY MATRIX
S561
VOLUME
VOL A
VOL B
ROTARY ENCODER
LEDS1
LEDS3
LED CONTROL Q517 - 519
D529,531,533,535 537,539,541,543 545,547,549,551 553,555,557
D1016,1017 D1021,1022
TC +5V
+7.5V
+7V REG IC1003
+7V REG IC1002
D1023-1025
+5V REG IC1001
RECT
+5.6V
D706
+5V
-7.5V
-7V REG IC1004
D1018
D +5V
ST +10V
+10V REG Q1003
D +5V (CD)
CD POWER ON/OFF Q1001,1002
DF DP
-25V REG Q1006
D1309,1310
D1003 - 1006
D1001,1002
D1013, 1014
D1250
+B
-B
VF
T1001 POWER TRANSFORMER
AC IN
VOLTAGE SELECTOR VS1601
H771 : E, EA, HK, SP,AR MODEL

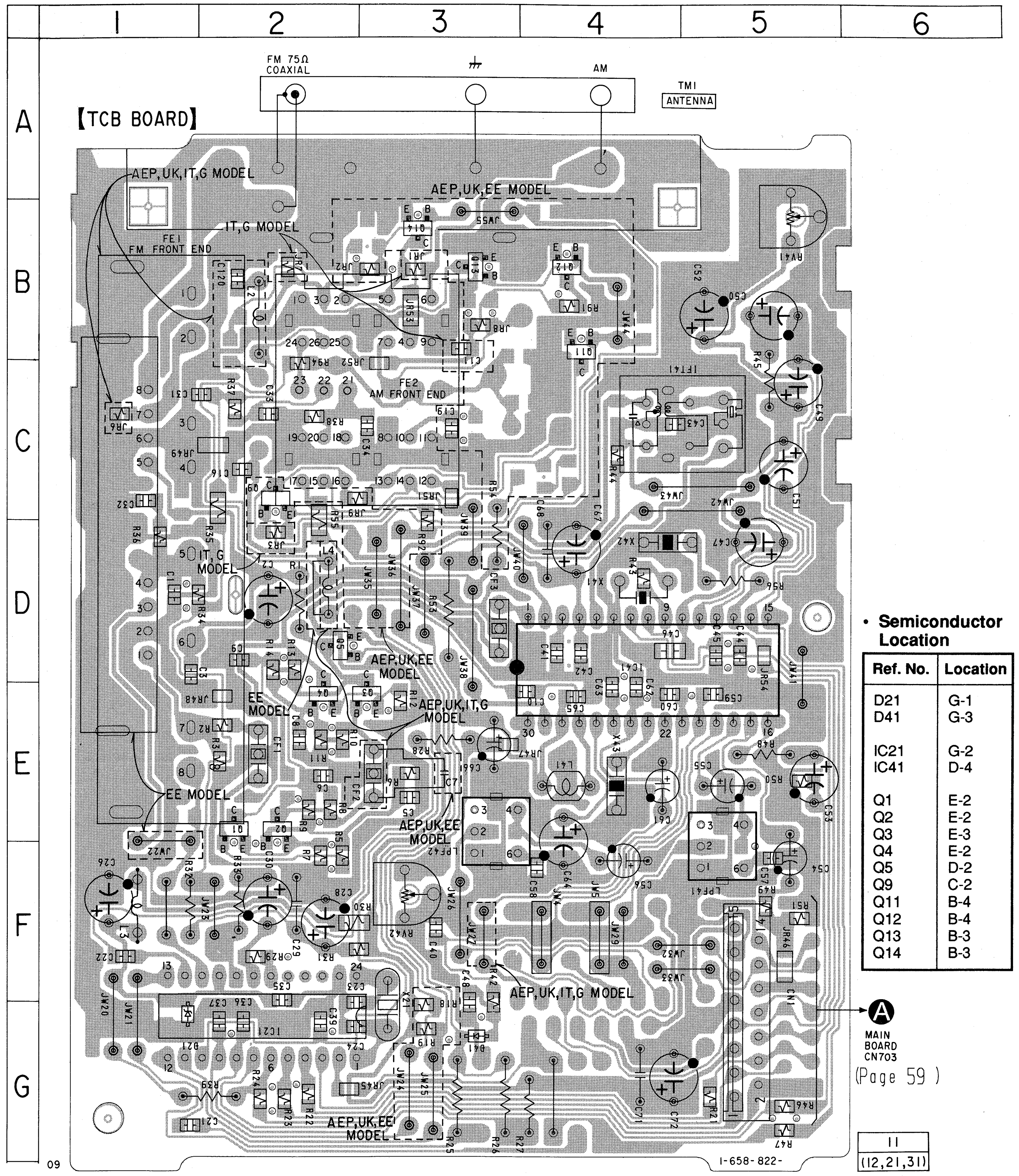
- Rch : Same as Lch
- Signal path
  - : FM
  - : CD
  - : PB
  - : REC
  - : VIDEO
- Abbreviation

CND	: Canadian model.
EA	: Saudi Arabia model.
MX	: Mexican model.
HK	: Hong Kong model.
SP	: Singapore model.
MY	: Malaysia model.
AUS	: Australian model.
AR	: Argentine model.
TH	: Thailand model.

* AEP, UK, G, IT, EE MODEL	: (Page 25)
CIS MODEL	: (Page 28)
TH MODEL	: (Page 30)
OTHER MODEL	: FM/AM TUNER

09

6-4. PRINTED WIRING BOARD — TUNER SECTION — (AEP, UK, G, IT, EE MODELS)
• See page 19 for Circuit Boards Location.



【TCB BOARD】
FM 75Ω COAXIAL
AM
TM1 ANTENNA
AEP,UK,IT,G MODEL
AEP,UK,EE MODEL
IT,G MODEL
FE1 FM FRONT END
FE2 AM FRONT END
EE MODEL
AEP,UK,EE MODEL
AEP,UK,IT,G MODEL
IC21
IC41
MAIN BOARD CN703
(Page 59)
1-658-822-
11 (12,21,31)
09

- **Semiconductor Location**

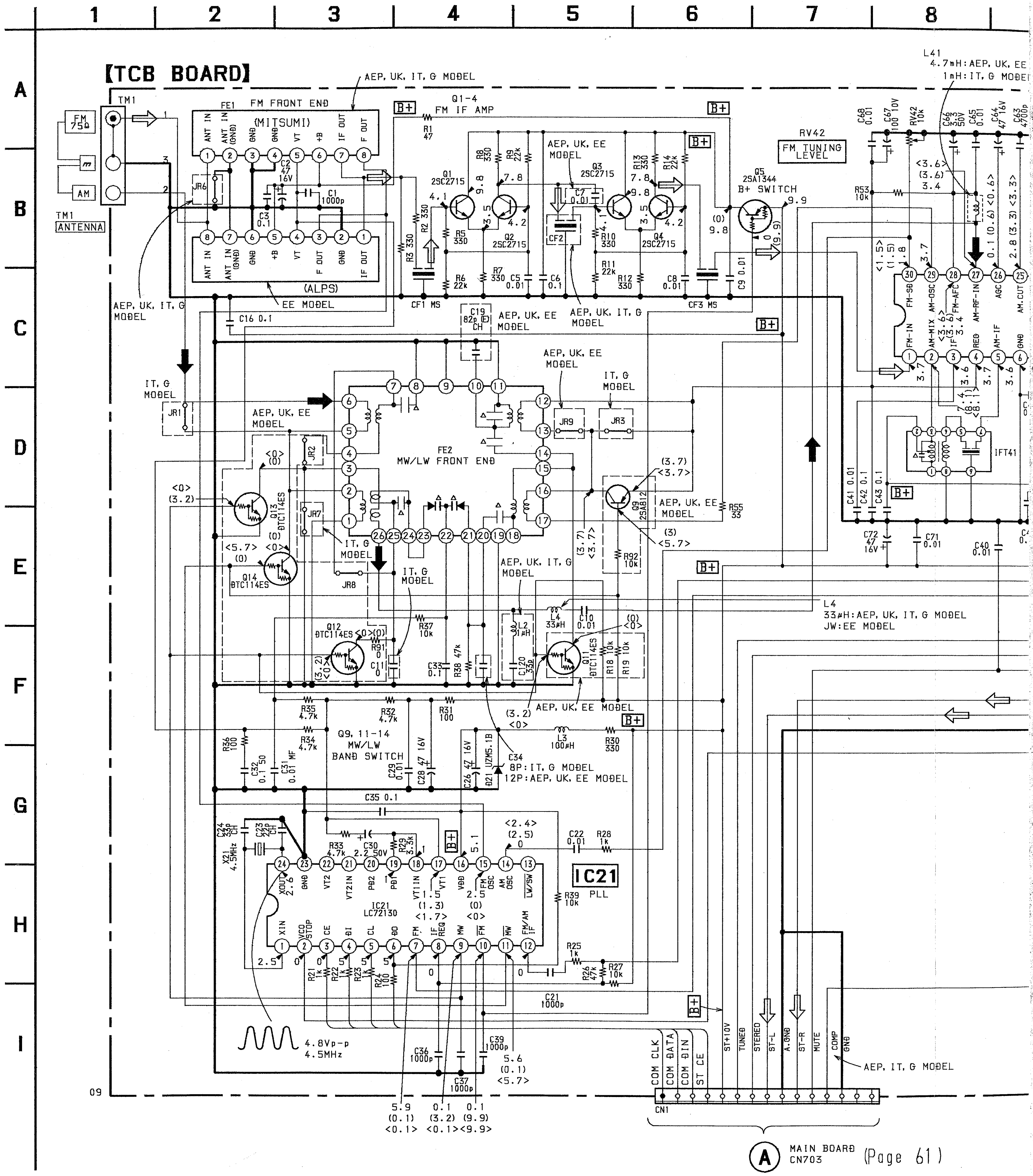
Ref. No.	Location
D21	G-1
D41	G-3
IC21	G-2
IC41	D-4
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	D-2
Q9	C-2
Q11	B-4
Q12	B-4
Q13	B-3
Q14	B-3

Note:
- ○—— : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.

- Abbreviation

G : German model.
IT : Italian model.
EE : East European model.

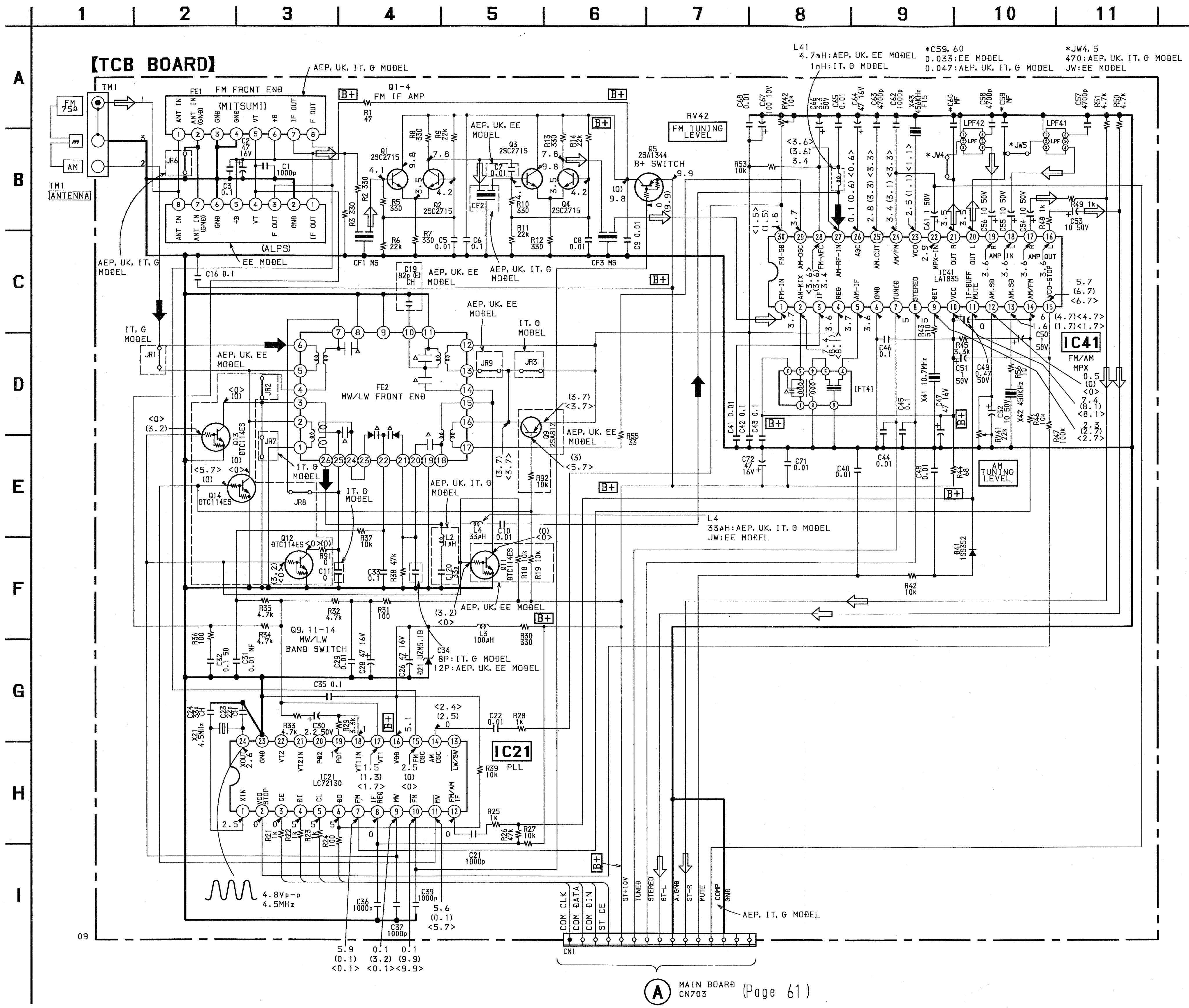
6-5. SCHEMATIC DIAGRAM — TUNER SECTION — (AEP, UK, G, IT, EE MODELS)
• See page 47 for IC Block Diagrams.



【TCB BOARD】
AEP, UK, IT, G MODEL
FE1 FM FRONT END (MITSUMI)
(ALPS)
EE MODEL
Q1-4 FM IF AMP
Q1 2SC2715
Q2 2SC2715
Q3 2SC2715
Q4 2SC2715
RV42 FM TUNING LEVEL
Q5 2SA1344 B+ SWITCH
L41 4.7mH:AEP, UK, EE 1mH:IT, G MODEL
FE2 MW/LW FRONT END
IFT41
Q9 2SA812
Q11 DTC114ES
Q12 DTC114ES
Q13 DTC114ES
Q14 DTC114ES
Q9, 11-14 MW/LW BAND SWITCH
L4 33μH:AEP, UK, IT, G MODEL JW:EE MODEL
C34 8P:IT, G MODEL 12P:AEP, UK, EE MODEL
D21 UZM5.1B
X21 4.5MHz
IC21 LC72130
IC21 PLL
4.8Vp-p 4.5MHz
COM CLK
COM DATA
COM DIN
ST CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
COMP
GND
AEP, IT, G MODEL
CN1
MAIN BOARD CN703
(Page 61)
09

6-5. SCHEMATIC DIAGRAM — TUNER SECTION — (AEP, UK, G, IT, EE MODELS)

- See page 47 for IC Block Diagrams.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
[TCB BOARD]
TM1
FM 75Ω
AM
TM1 ANTENNA
FE1 FM FRONT END
(MITSUMI)
(ALPS)
EE MODEL
AEP, UK, IT, G MODEL
Q1-4 FM IF AMP
Q1 2SC2715
Q2 2SC2715
Q3 2SC2715
Q4 2SC2715
Q5 2SA1344 B+ SWITCH
RV42 FM TUNING LEVEL
CF1 MS
CF2
CF3 MS
FE2 MW/LW FRONT END
Q9 2SA812
Q9, 11-14 MW/LW BAND SWITCH
Q11 DTC114ES
Q12 DTC114ES
Q13 DTC114ES
Q14 DTC114ES
IC41 LA1835
IC41 FM/AM MPX
IFT41
LPF41
LPF42
X41 10.7MHz
X42 450KHz
AM TUNING LEVEL
IC21 LC72130
IC21 PLL
X21 4.5MHz
4.8Vp-p 4.5MHz
L3 100μH
L4 33μH:AEP, UK, IT, G MODEL JW:EE MODEL
L41 4.7mH:AEP, UK, EE MODEL 1mH:IT, G MODEL
*C59, 60 0.033:EE MODEL 0.047:AEP, UK, IT, G MODEL
*JW4, 5 470:AEP, UK, IT, G MODEL JW:EE MODEL
C34 8P:IT, G MODEL 12P:AEP, UK, EE MODEL
D41 1SS352
D21 UZM5.1B
B+
CN1
COM CLK
COM DATA
COM DIN
ST CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
COMP
GND
AEP, IT, G MODEL
09
MAIN BOARD CN703 (Page 61)

NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ☐ : panel designation.
- B+ : B+ Line.
- ☐ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ) : MW
  < > : LW
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.
- Signal path.
  ⇨ : FM
  ➡ : AM

- **Semiconductor Location**

Ref. No.	Location
D21	G-1
D41	G-3
IC21	G-2
IC41	D-4
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	D-2
Q9	C-2
Q11	B-4
Q12	B-4
Q13	B-3
Q14	B-3

Ⓐ MAIN BOARD CN703 (Page 59)

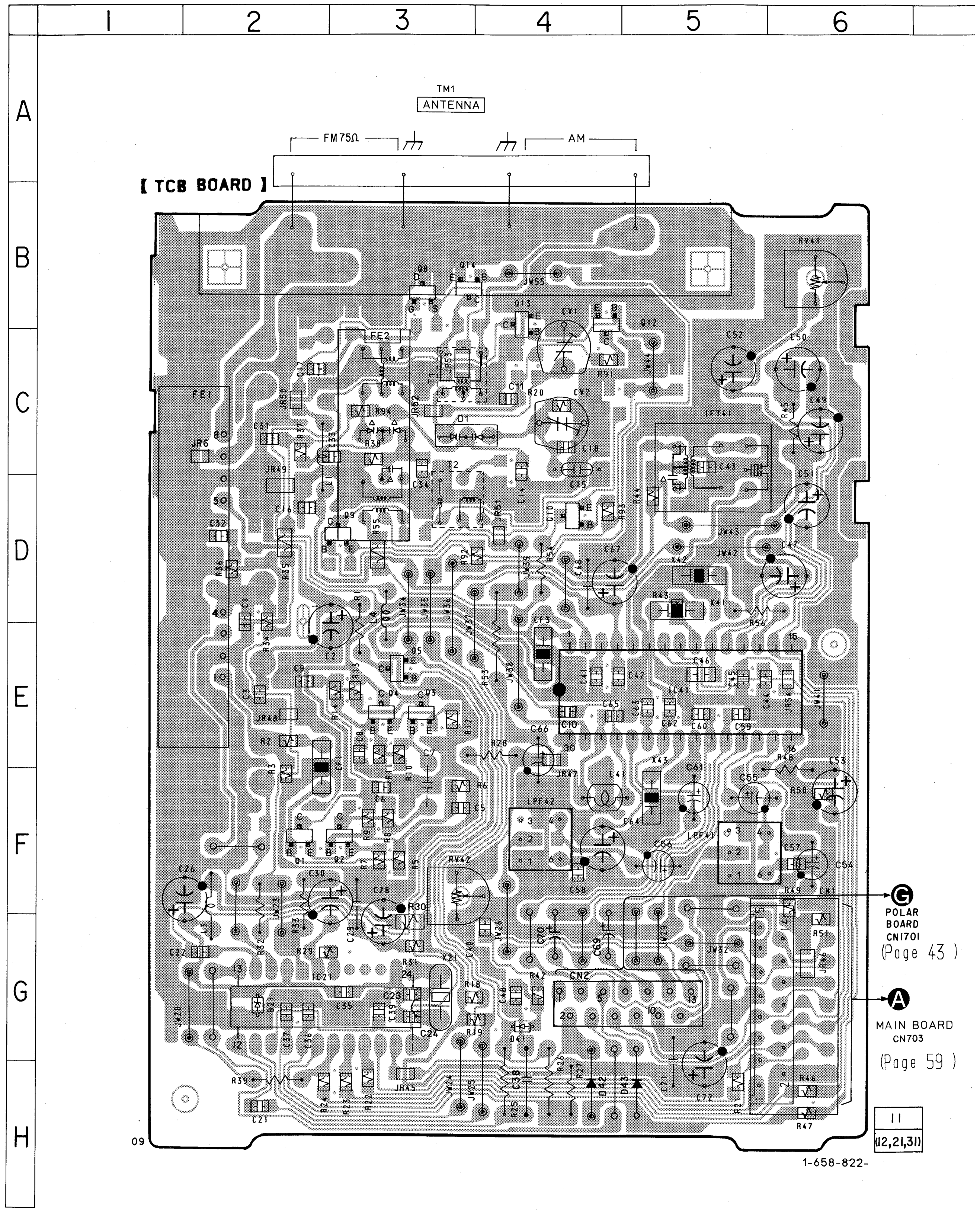
II (12,21,31)

6-6. PRINTED WIRING BOARD — TUNER SECTION — (CIS MODEL)

• See page 19 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D1	C-3
D21	G-2
D41	G-4
D42	H-4
D43	H-4
IC21	G-2
IC41	E-5
Q1	F-2
Q2	F-3
Q3	E-3
Q4	E-3
Q5	E-3
Q8	B-3
Q9	D-3
Q10	D-4
Q12	B-5
Q13	B-4
Q14	B-3

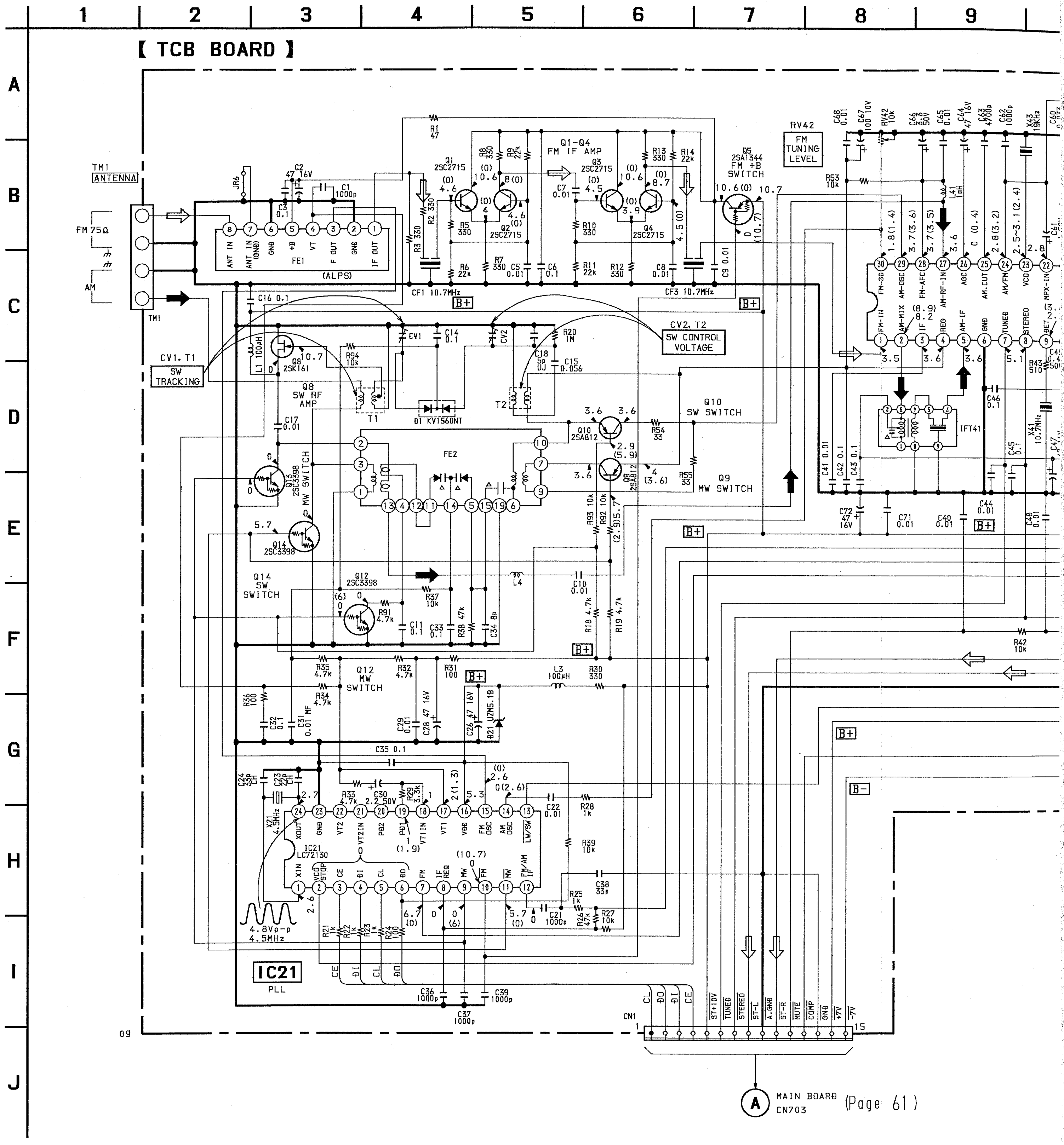

1
2
3
4
5
6
A
B
C
D
E
F
G
H
TM1
ANTENNA
FM75Ω
AM
【 TCB BOARD 】
RV41
FE1
FE2
CV1
CV2
IFT41
IC41
IC21
CF3
LPF42
LPF41
RV42
X21
CN2
CN1
POLAR BOARD CN1701
(Page 43)
MAIN BOARD CN703
(Page 59)
11
(12,21,31)
09
1-658-822-

Note:

- ○—— : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.

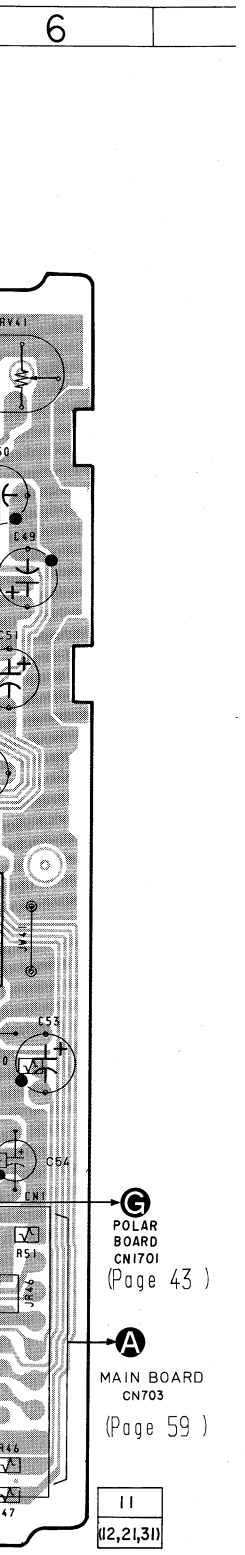
6-7. SCHEMATIC DIAGRAM — TUNER SECTION — (CIS MODEL)

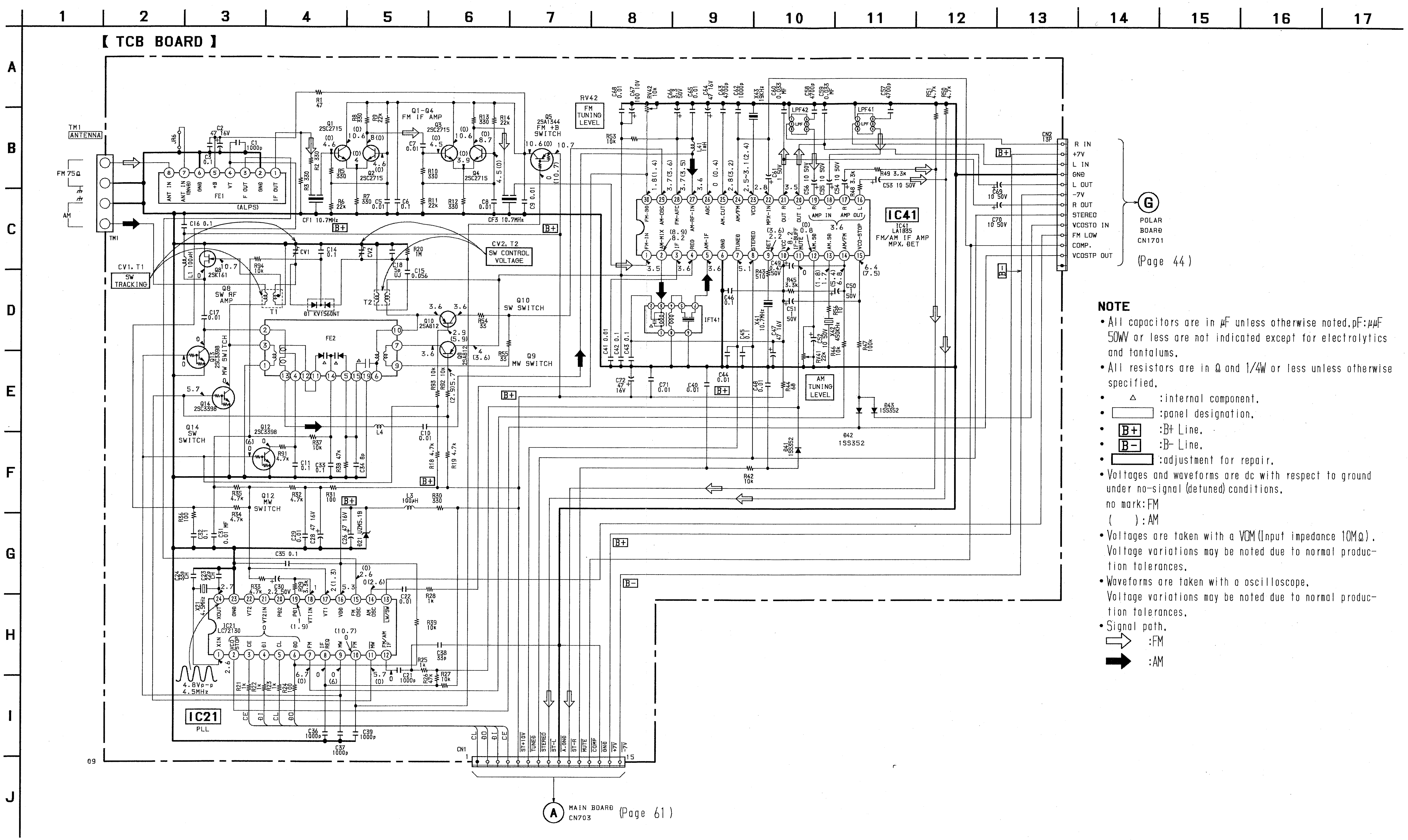
• See page 47 for IC Block Diagrams.


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
【 TCB BOARD 】
TM1
ANTENNA
FM75Ω
AM
FE1
(ALPS)
CF1 10.7MHz
Q1-Q4
FM IF AMP
Q1 2SC2715
Q2 2SC2715
Q3 2SC2715
Q4 2SC2715
Q5 2SA1344
FM +B SWITCH
RV42
FM TUNING LEVEL
CF3 10.7MHz
CV1, T1
SW TRACKING
Q8 2SK161
SW RF AMP
D1 KV1560NT
CV2, T2
SW CONTROL VOLTAGE
Q10 2SA612
Q10 SW SWITCH
Q9 MW SWITCH
FE2
Q13 2SC3398
Q13 MW SWITCH
Q14 2SC3398
Q14 SW SWITCH
Q12 2SC3398
Q12 MW SWITCH
IFT41
X41 10.7MHz
IC21 LC72130
IC21 PLL
X21 4.5MHz
4.8Vp-p
4.5MHz
CN1
MAIN BOARD CN703
(Page 61)
09

6-7. SCHEMATIC DIAGRAM — TUNER SECTION — (CIS MODEL)

• See page 47 for IC Block Diagrams.


6
RV41
C49
C53
C54
CN1
R51
R46
G
POLAR BOARD CN1701
(Page 43)
A
MAIN BOARD CN703
(Page 59)
11
(12,21,31)
1-658-822-


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
A
B
C
D
E
F
G
H
I
J
【 TCB BOARD 】
TM1 ANTENNA
FM 75Ω
AM
FE1
(ALPS)
ANT IN
+B
VT
F OUT
GND
IF OUT
Q1-Q4 FM IF AMP
Q1 2SC2715
Q2 2SC2715
Q3 2SC2715
Q4 2SC2715
Q5 2SA1344 FM +B SWITCH
CF1 10.7MHz
CF3 10.7MHz
RV42 FM TUNING LEVEL
CV1, T1 SW TRACKING
CV2, T2 SW CONTROL VOLTAGE
Q8 2SK161
Q8 SW RF AMP
Q13 2SC3398
Q13 MW SWITCH
Q14 2SC3398
Q14 SW SWITCH
Q12 2SC3398
Q12 MW SWITCH
Q10 2SA812
Q10 SW SWITCH
Q9 2SC2458
Q9 MW SWITCH
D1 KV1560NT
FE2
L4
L3 100μH
IC41 LA1835 FM/AM IF AMP MPX, DET
IC41
IFT41
LPF41
LPF42
X41 10.7MHz
X42 456kHz
X43 19kHz
AM TUNING LEVEL
D41 1SS352
D42 1SS352
D43 1SS352
AMP IN
AMP OUT
FM-IN
AM-MIX
FM-AFC
AM-RF-IN
AM-IF
REG
ARC
AM.CUT
AM/FM
TUNE
STEREO
VCO
MPX-IN
OUT R
OUT L
MUTE
CN2 13P
R IN
+7V
L IN
GND
L OUT
-7V
R OUT
STEREO
VCOSTO IN
FM LOW
COMP.
VCOSTP OUT
G
POLAR BOARD CN1701
(Page 44)
IC21 LC72130
IC21
PLL
X21 4.5MHz
4.8Vp-p
4.5MHz
XIN
XOUT
VCO STOP
CE
DI
CL
DO
FM
AM
IF REQ
GND
VDD
LPF/MW
FM/AM IF
CN1
CL
DO
DI
CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
COMP
GND
+7V
-7V
15
A
MAIN BOARD CN703
(Page 61)
B+
B-
09

NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- B- :B- Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

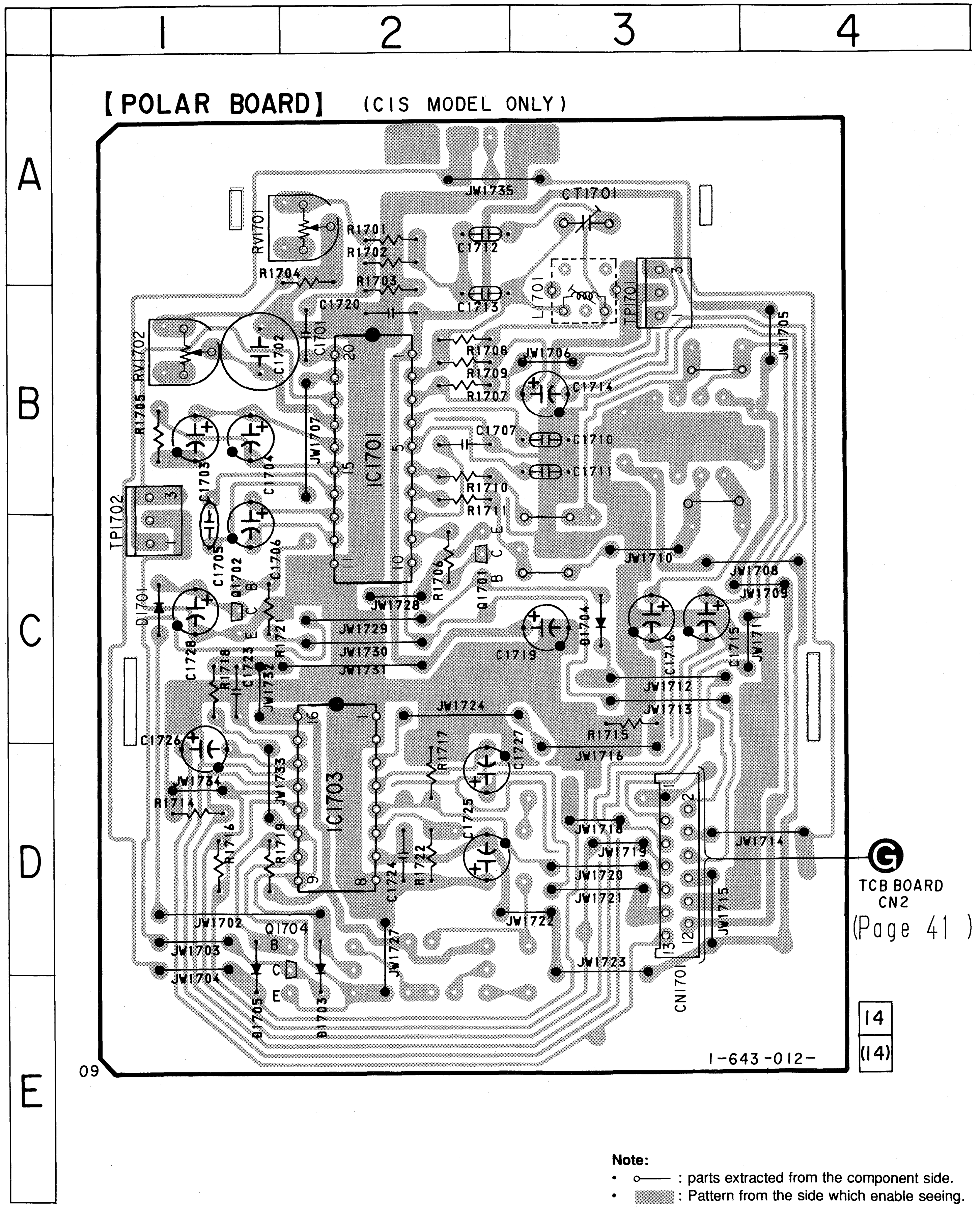
  no mark: FM

  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.

  ⇨ :FM

  ➡ :AM

6-8. PRINTED WIRING BOARD — POLAR SECTION —
• See page 19 for Circuit Boards Location.

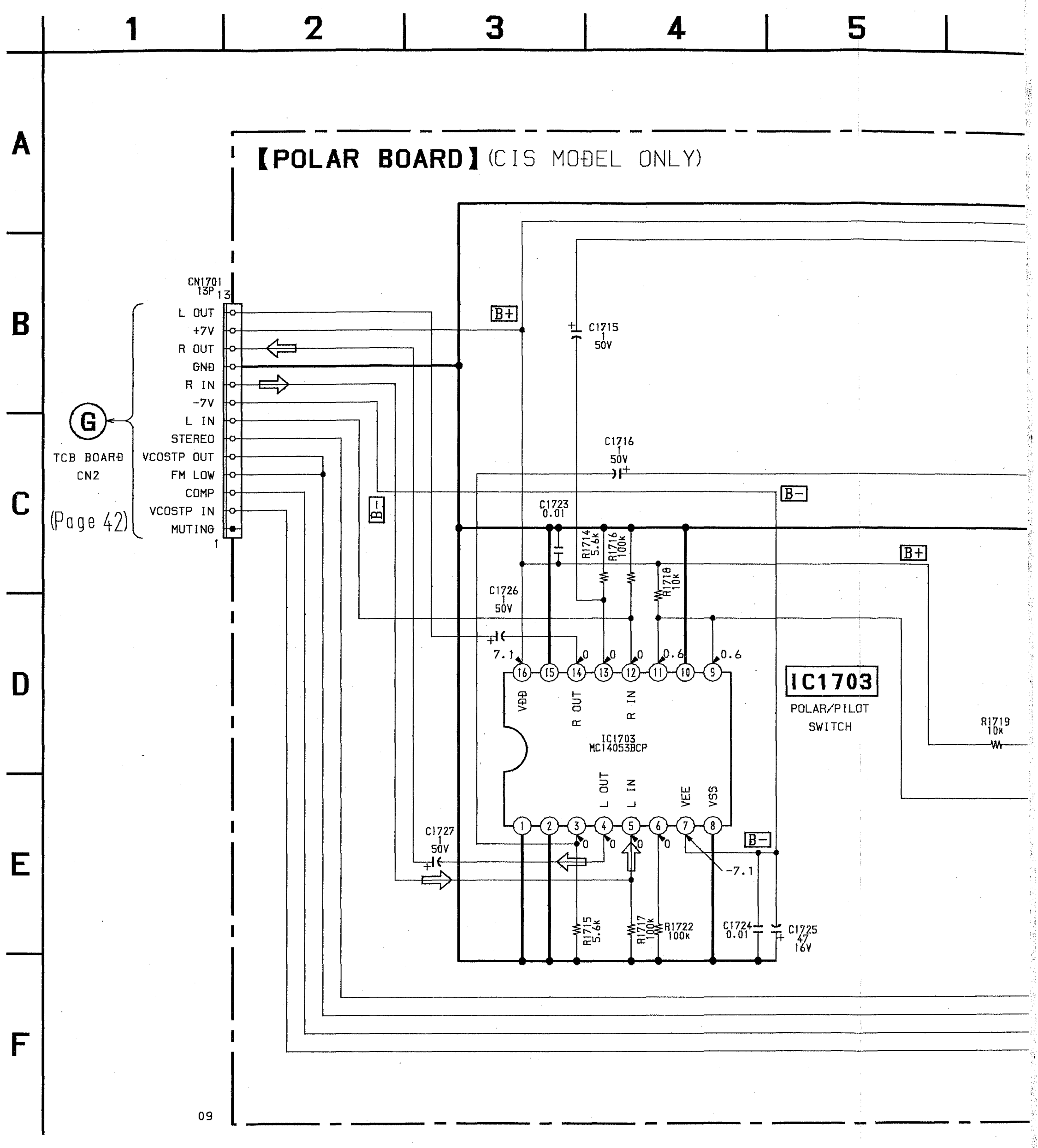

1
2
3
4
A
B
C
D
E
[POLAR BOARD] (CIS MODEL ONLY)
JW1735
CT1701
RV1701
R1701
R1702
C1712
R1704
R1703
C1713
L1701
TP1701
RV1702
C1720
C1701
C1702
R1708
JW1706
R1709
R1707
C1714
JW1705
R1705
C1707
C1710
C1711
JW1707
IC1701
R1710
R1711
TP1702
C1703
C1704
C1705
Q1702
C1706
R1706
Q1701
JW1710
JW1708
JW1709
D1701
JW1728
D1704
JW1729
JW1730
JW1731
C1719
C1716
C1715
JW1711
C1728
R1718
C1723
R1721
JW1732
JW1712
JW1713
JW1724
C1726
R1717
C1727
R1715
JW1716
JW1734
R1714
JW1733
IC1703
C1725
R1716
R1719
C1724
R1722
JW1718
JW1719
JW1720
JW1721
JW1714
JW1715
JW1702
Q1704
JW1722
JW1703
JW1704
JW1727
JW1723
D1705
D1703
CN1701
G
TCB BOARD
CN2
(Page 41)
14
(14)
1-643-012-
09

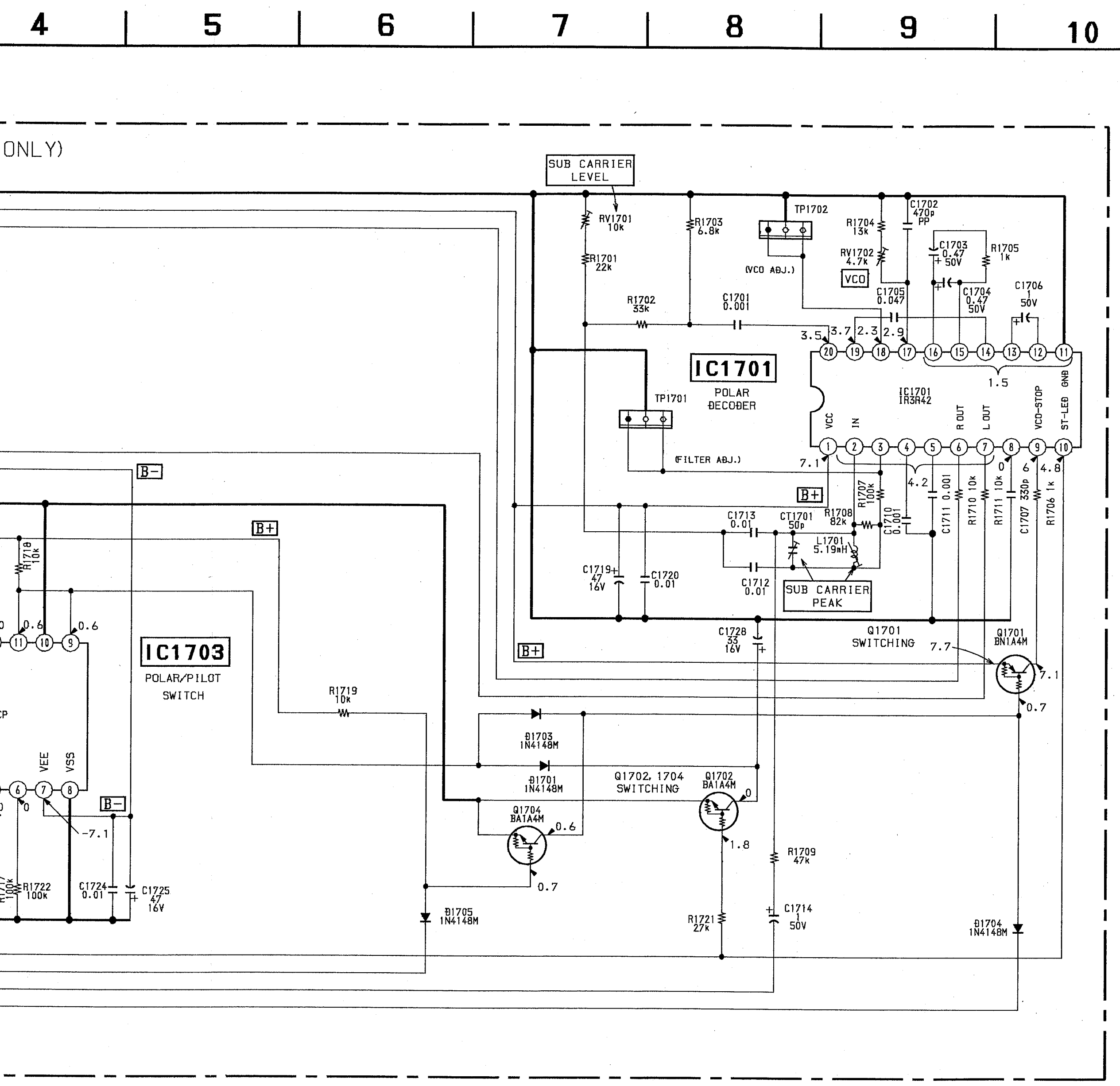
• **Semiconductor Location**

Ref. No.	Location
D1701	C-1
D1703	E-2
D1704	C-3
D1705	E-2
IC1701	B-2
IC1703	D-2
Q1701	C-3
Q1702	C-1
Q1704	E-2

Note:
- o—— : parts extracted from the component side.
- ▨ : Pattern from the side which enable seeing.

6-9. SCHEMATIC DIAGRAM — POLAR SECTION —


1
2
3
4
5
A
B
C
D
E
F
[POLAR BOARD] (CIS MODEL ONLY)
CN1701 13P
L OUT
+7V
R OUT
GND
R IN
-7V
L IN
STEREO
VCOSTP OUT
FM LOW
COMP
VCOSTP IN
MUTING
G
TCB BOARD CN2
(Page 42)
B+
B-
C1715 50V
C1716 50V
C1723 0.01
R1714 5.6k
R1716 100k
R1718 10k
C1726 50V
IC1703
POLAR/PILOT SWITCH
IC1703 MC14053BCP
VDD
R OUT
R IN
L OUT
L IN
VEE
VSS
R1719 10k
C1727 50V
R1715 5.6k
R1717 100k
R1722 100k
C1724 0.01
C1725 47 16V
7.1
0.6
-7.1
09

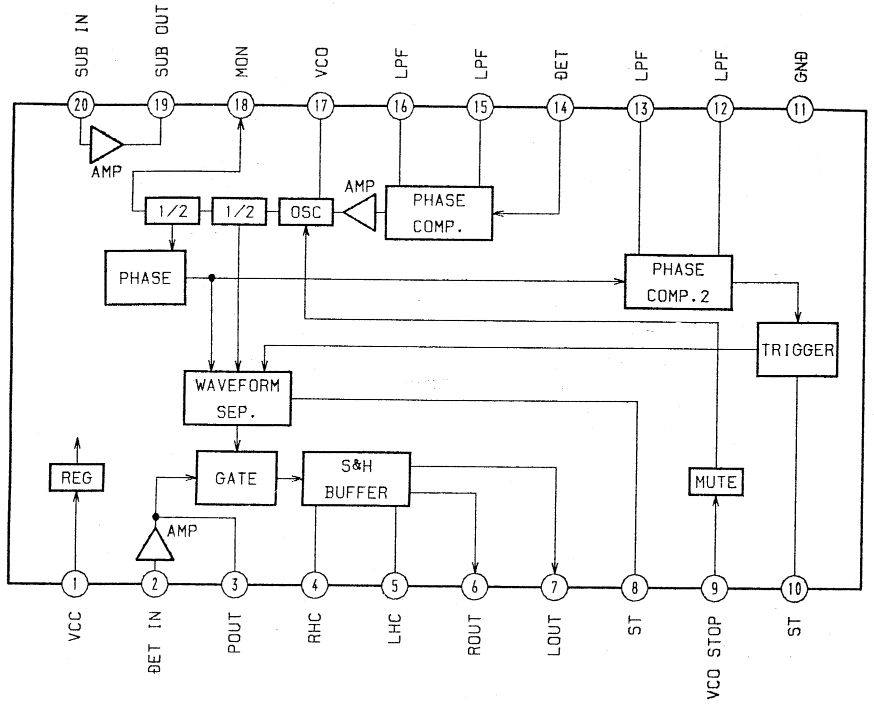

4
5
6
7
8
9
10
11
12
13
ONLY)
SUB CARRIER LEVEL
RV1701 10k
R1701 22k
R1702 33k
R1703 6.8k
C1701 0.001
TP1702
(VCO ADJ.)
VCO
R1704 13k
RV1702 4.7k
C1702 470p PP
C1703 0.47 50V
R1705 1k
C1705 0.047
C1704 0.47 50V
C1706 50V
IC1701
POLAR DECODER
IC1701 IR3R42
TP1701
(FILTER ABJ.)
C1713 0.01
C1701 50p
R1708 82k
R1707 100k
C1710 0.001
C1711 0.001
R1710 10k
R1711 10k
C1707 330p
R1706 1k
L1701 5.19mH
C1719 47 16V
C1720 0.01
C1712 0.01
SUB CARRIER PEAK
C1728 33 16V
Q1701 SWITCHING
Q1701 BN1A4M
IC1703
POLAR/PILOT SWITCH
R1719 10k
R1718 10k
D1703 1N4148M
D1701 1N4148M
Q1702, 1704 SWITCHING
Q1702 BA1A4M
Q1704 BA1A4M
R1709 47k
C1714 1 50V
R1721 27k
D1705 1N4148M
D1704 1N4148M
R1722 100k
C1724 0.01
C1725 47 16V
B+
B−
VEE
VSS

NOTE

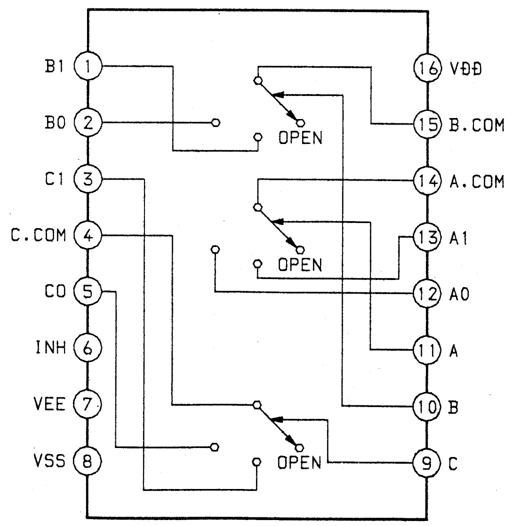
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ : B+ Line.
- B− : B− Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

- **IC Block Diagrams**

IC1701 IR3R42

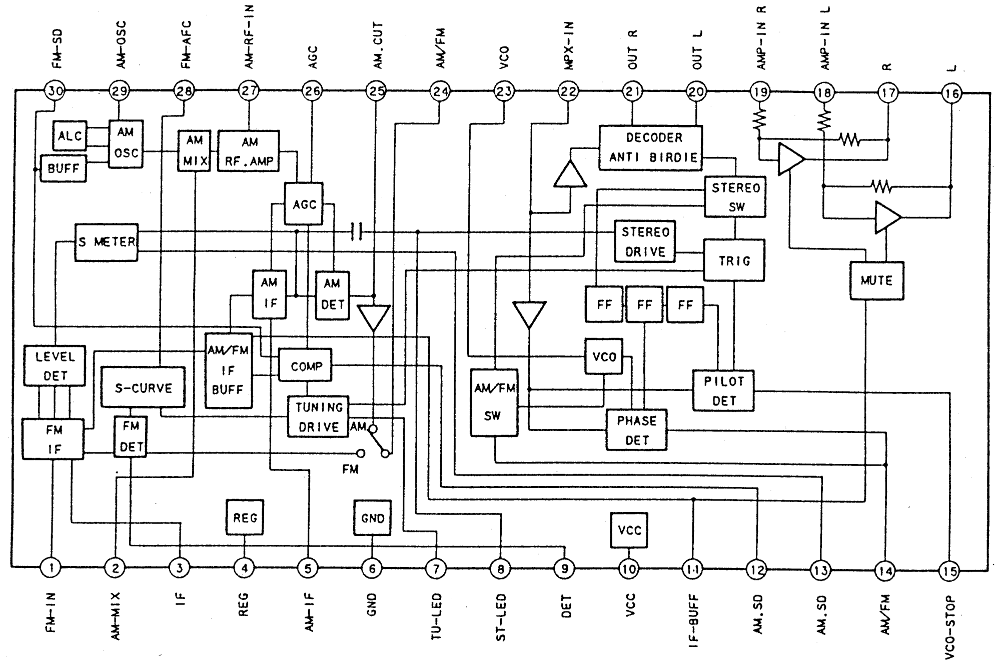

SUB IN
SUB OUT
MON
VCO
LPF
LPF
DET
LPF
LPF
GND
AMP
1/2
1/2
OSC
AMP
PHASE COMP.
PHASE
PHASE COMP.2
TRIGGER
WAVEFORM SEP.
REG
GATE
S&H BUFFER
MUTE
AMP
VCC
DET IN
POUT
RHC
LHC
ROUT
LOUT
ST
VCO STOP
ST

IC1703 MC14053BCP

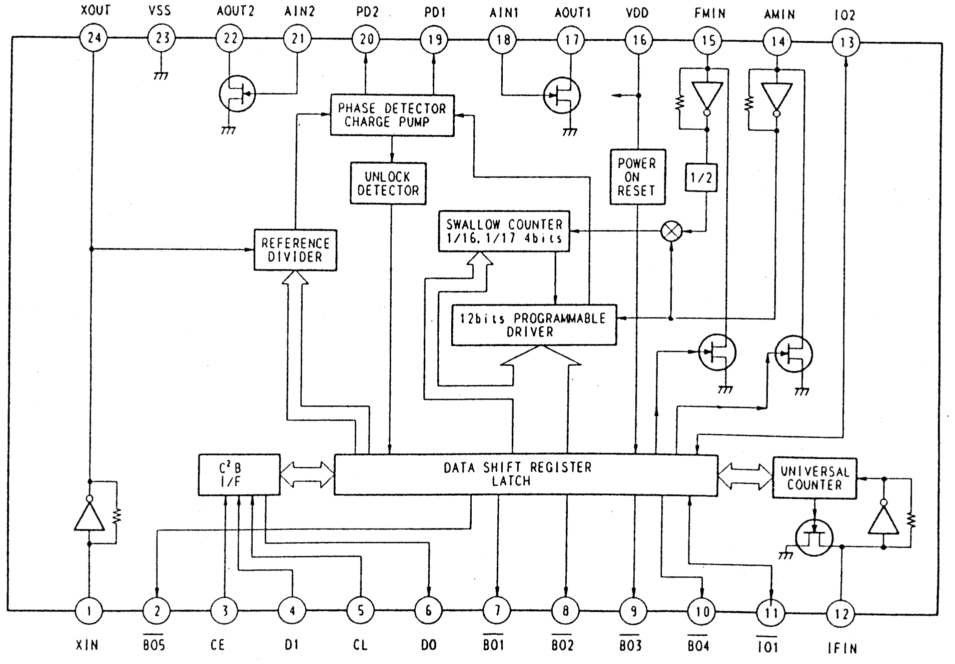

B1 1
B0 2
C1 3
C.COM 4
C0 5
INH 6
VEE 7
VSS 8
16 VDD
15 B.COM
14 A.COM
13 A1
12 A0
11 A
10 B
9 C
OPEN
OPEN
OPEN

- **IC Block Diagrams**

IC1, 21 LC72130


FM-SD
AM-OSC
FM-AFC
AM-RF-IN
AGC
AM.CUT
AM/FM
VCO
MPX-IN
OUT R
OUT L
AMP-IN R
AMP-IN L
R
L
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ALC
AM OSC
BUFF
AM MIX
AM RF.AMP
AGC
S METER
AM IF
AM DET
LEVEL DET
S-CURVE
AM/FM IF BUFF
COMP
TUNING DRIVE
AM
FM
FM IF
FM DET
REG
GND
VCC
DECODER ANTI BIRDIE
STEREO SW
STEREO DRIVE
TRIG
MUTE
FF
FF
FF
VCO
AM/FM SW
PHASE DET
PILOT DET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
FM-IN
AM-MIX
IF
REG
AM-IF
GND
TU-LED
ST-LED
DET
VCC
IF-BUFF
AM.SD
AM.SD
AM/FM
VCO-STOP

IC2, 41 LA1835


XOUT
VSS
AOUT2
AIN2
PD2
PD1
AIN1
AOUT1
VDD
FMIN
AMIN
IO2
24
23
22
21
20
19
18
17
16
15
14
13
PHASE DETECTOR CHARGE PUMP
UNLOCK DETECTOR
POWER ON RESET
1/2
REFERENCE DIVIDER
SWALLOW COUNTER 1/16, 1/17 4bits
12bits PROGRAMMABLE DRIVER
C²B I/F
DATA SHIFT REGISTER LATCH
UNIVERSAL COUNTER
1
2
3
4
5
6
7
8
9
10
11
12
XIN
BO5
CE
DI
CL
DO
BO1
BO2
BO3
BO4
IO1
IFIN

- **Semiconductor Location**

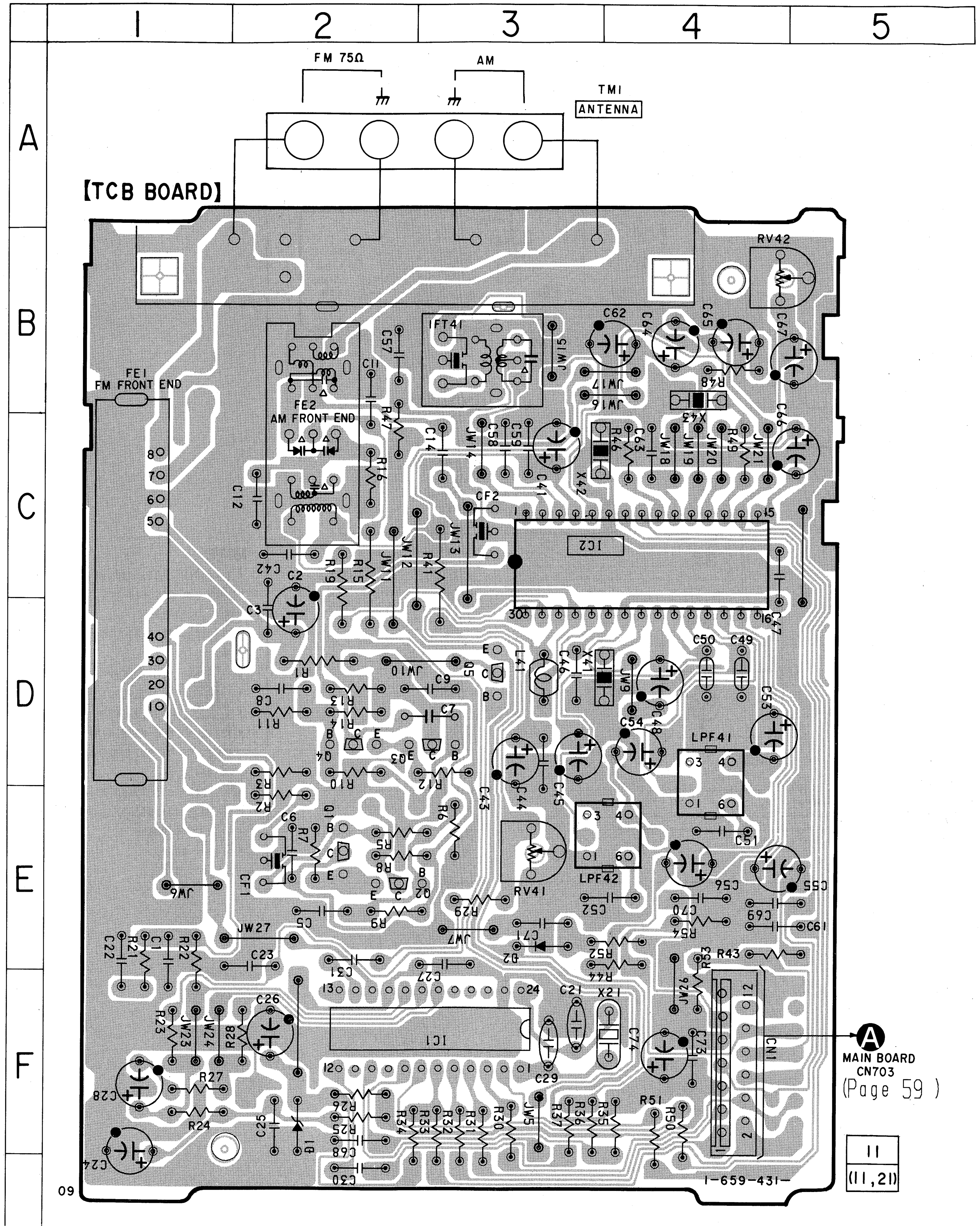
Ref. No.	Location
D1	F-2
D2	E-3
IC1	F-3
IC2	C-3
Q1	E-2
Q2	E-2
Q3	D-2
Q4	D-2
Q5	D-3

Note:

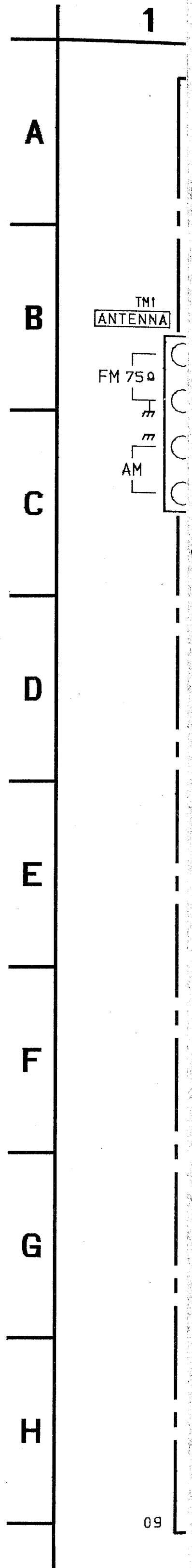
- ○—— : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.
- Abbreviation
  TH : Thailand model.

6-10. PRINTED WIRING BOARD — TUNER SECTION — (TH MODEL)

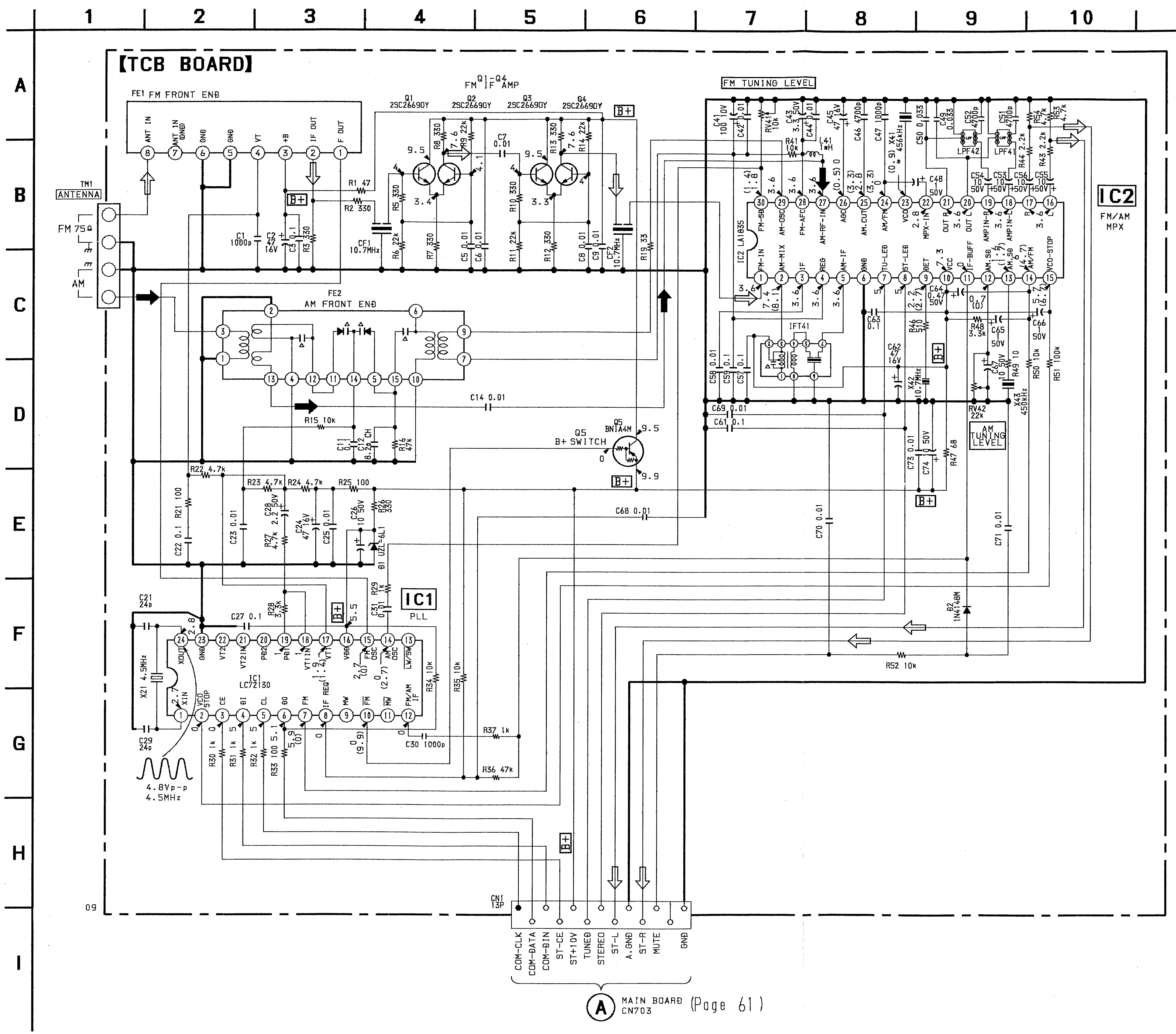
- **See page 19 for Circuit Boards Location.**


1
2
3
4
5
A
B
C
D
E
F
G
H
I
FM 75Ω
AM
TM1
ANTENNA
[TCB BOARD]
FE1
FM FRONT END
FE2
AM FRONT END
IFT41
RV42
RV41
IC2
IC1
LPF41
LPF42
X21
X41
X42
X43
L41
CF1
CF2
CN1
C2
C3
C5
C6
C7
C8
C9
C11
C12
C14
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C41
C42
C43
C44
C45
C46
C47
C48
C49
C50
C51
C52
C53
C54
C55
C56
C57
C58
C59
C61
C62
C63
C64
C65
C66
C67
C68
C69
C70
C73
C74
R1
R2
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R19
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R35
R36
R37
R41
R43
R44
R46
R47
R48
R49
R50
R51
R52
R53
R54
JW5
JW6
JW7
JW9
JW10
JW11
JW12
JW13
JW14
JW15
JW16
JW17
JW18
JW19
JW20
JW21
JW23
JW24
JW26
JW27
Q1
Q2
Q3
Q4
Q5
D1
D2
B
C
E
09
MAIN BOARD
CN703
(Page 59)
1-659-431-
11
(11,21)

6-11. SCHEMA


1
A
B
C
D
E
F
G
H
I
TM1
ANTENNA
FM 75Ω
AM
09

6-11. SCHEMATIC DIAGRAM — TUNER SECTION — (TH MODEL)


1
2
3
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9
10
A
B
C
D
E
F
G
H
I
[TCB BOARD]
FE1 FM FRONT END
ANT IN
ANT IN (GND)
GND
GND
VT
+B
IF OUT
F OUT
TM1 ANTENNA
FM 75Ω
AM
Q1-Q4 FM IF AMP
Q1 2SC2669OY
Q2 2SC2669OY
Q3 2SC2669OY
Q4 2SC2669OY
B+
R1 47
R2 330
C1 1000p
C2 47 16V
C3 0.1
R3 330
CF1 10.7MHz
R5 330
R6 22k
R7 330
R8 330
R9 22k
C7 0.01
C5 0.01
C6 0.01
R10 330
R11 22k
R12 330
R13 330
R14 22k
C8 0.01
C9 0.01
CF2 10.7MHz
R19 33
9.5
3.4
7.6
4.1
3.3
FE2 AM FRONT END
C14 0.01
R15 10k
C11
C12 8.2p
CH
R16 47k
Q5 BN1A4M
Q5 B+ SWITCH
9.9
R22 4.7k
R21 100
C22 0.1
C23 0.01
R23 4.7k
R24 4.7k
R25 100
C28 2.2 50V
R27 4.7k
C24 47 16V
C25 0.01
C26 10 50V
R26 330
D1 UZ-6L1
C68 0.01
FM TUNING LEVEL
C41 100 10V
C42
RV41 10k
R41 10k
C43 3.3 50V
C44 0.01
L41 1mH
C45 47 16V
C46 4700p
C47 1000p
X41 456kHz
C48 1 50V
C50 0.033
C49 0.033
C52 4700p
C51 4700p
LPF42
LPF41
R44 2.2k
R54 4.7k
R43 2.2k
R53 4.7k
C54 10 50V
C53 10 50V
C56 10 50V
C55 10 50V
IC2 LA1835
IC2 FM/AM MPX
FM-SD
AM-OSC
FM-AFC
AM-RF-IN
AGC
AM.CUT
AM/FM
VCO
MPX-IN
OUT R
OUT L
AMPIN-R
AMPIN-L
FM-IN
AM-MIX
IF
REG
AM-IF
GND
TU-LED
ST-LED
DET
VCC
IF-BUFF
AM.SD
AM.SD
AM/FM
VCO-STOP
IFT41
C58 0.01
C59 0.1
C57 0.1
C63 0.1
C62 47 16V
X42 10.7MHz
R46 510
C64 0.47 50V
R48 3.3k
C65 1 50V
C66 1 50V
C67 10 50V
R49 10
R50 10k
R51 100k
X43 450kHz
RV42 22k
AM TUNING LEVEL
C69 0.01
C61 0.1
C73 0.01
C74 0.1 50V
R47 68
C70 0.01
C71 0.01
D2 1N4148M
R52 10k
IC1 PLL
IC1 LC72130
C21 24p
C27 0.1
R28 3.3k
R29 1k
C31 0.01
X21 4.5MHz
C29 24p
XOUT
GND
VT2
VT2IN
PD2
PD1
VT1IN
VT1
VDD
FM OSC
AM OSC
LW/SW
XIN
VCO STOP
CE
DI
CL
DO
FM
IF REQ
MW
FM
MW
FM/AM IF
R34 10k
R35 10k
R37 1k
R36 47k
C30 1000p
R30 1k
R31 1k
R32 1k
R33 100
4.8Vp-p
4.5MHz
CN1 13P
COM-CLK
COM-DATA
COM-DIN
ST-CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
GND
A MAIN BOARD CN703 (Page 61)
09

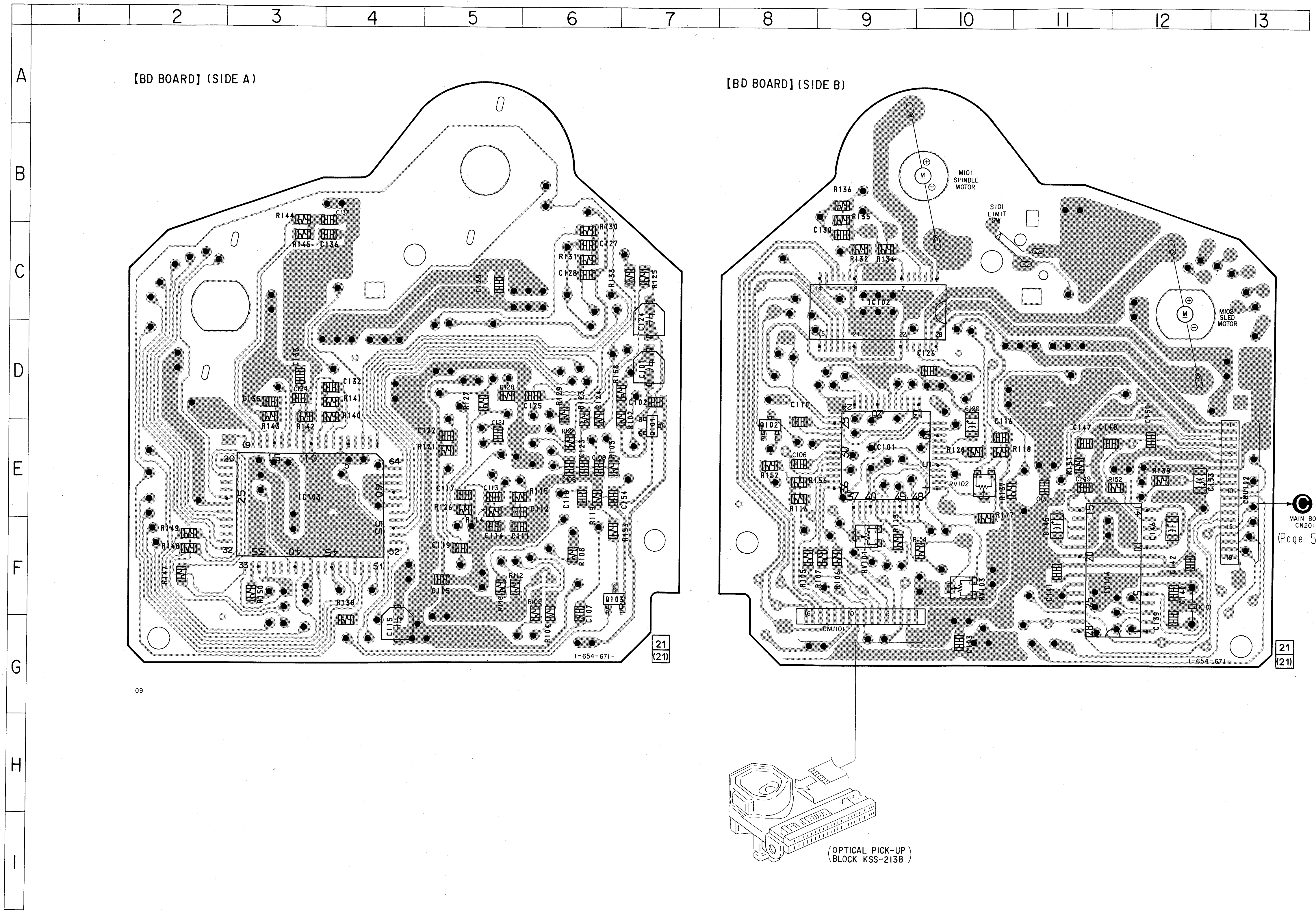
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ) : AM
  * : can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  TH : Thailand model.
- Signal path.
  ⇨ : FM
  ➡ : AM

6-12. PRINTED WIRING BOARD — CD SECTION —
• See page 19 for Circuit Boards Location.

- **Semiconductor Location**

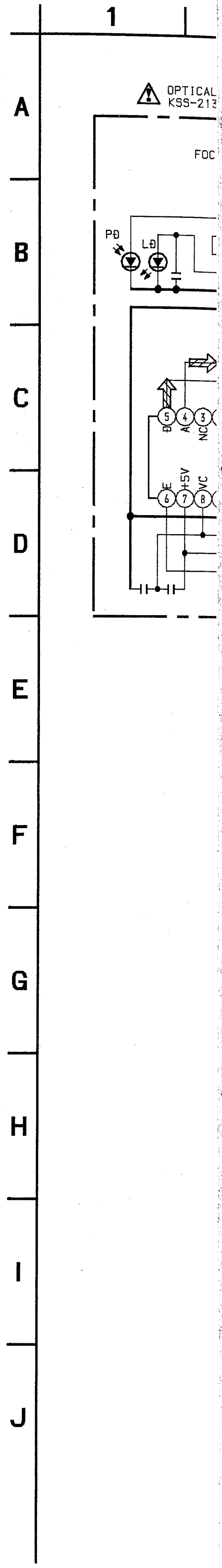
Ref. No.	Location
IC101	E-9
IC102	C-8
IC103	E-3
IC104	F-11
Q101	D-6
Q102	D-7
Q103	F-6



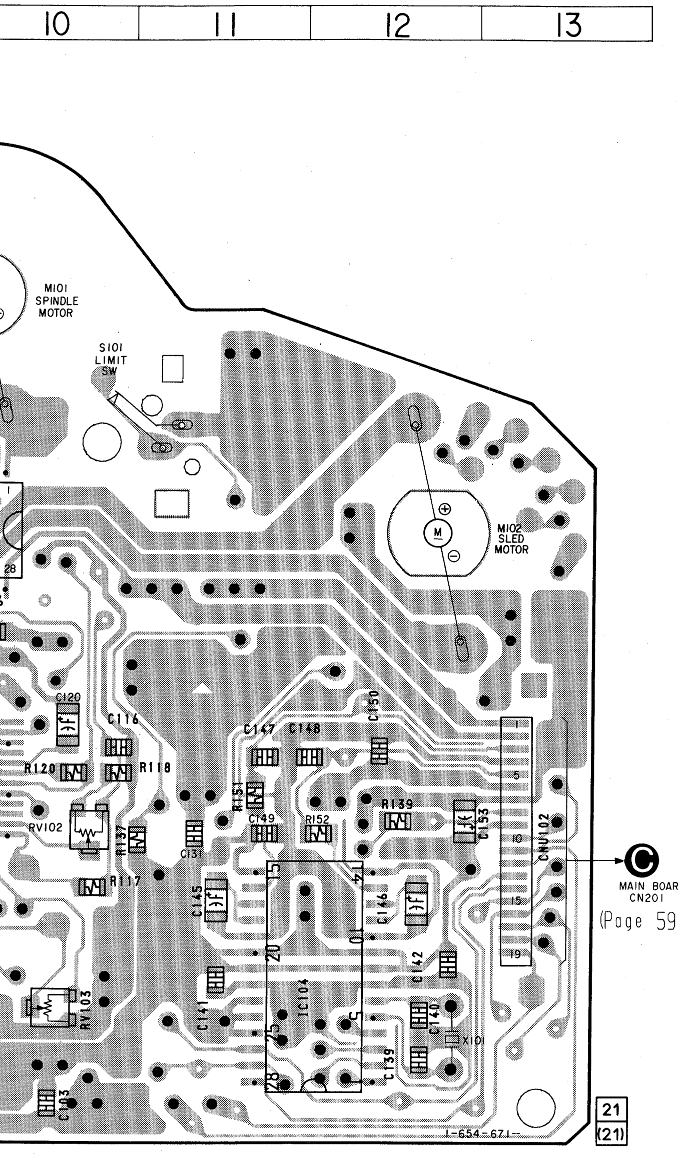
1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I
[BD BOARD] (SIDE A)
[BD BOARD] (SIDE B)
IC101
IC102
IC103
IC104
Q101
Q102
Q103
M101 SPINDLE MOTOR
M102 SLED MOTOR
S101 LIMIT SW
RV101
RV102
RV103
CNU101
CNU102
X101
MAIN BOARD CN201
(Page 59)
1-654-671-
21 (21)
09
OPTICAL PICK-UP BLOCK KSS-213B

Note:
- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▨ : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

6-13. SCHEMATIC DI
• See page 80 f

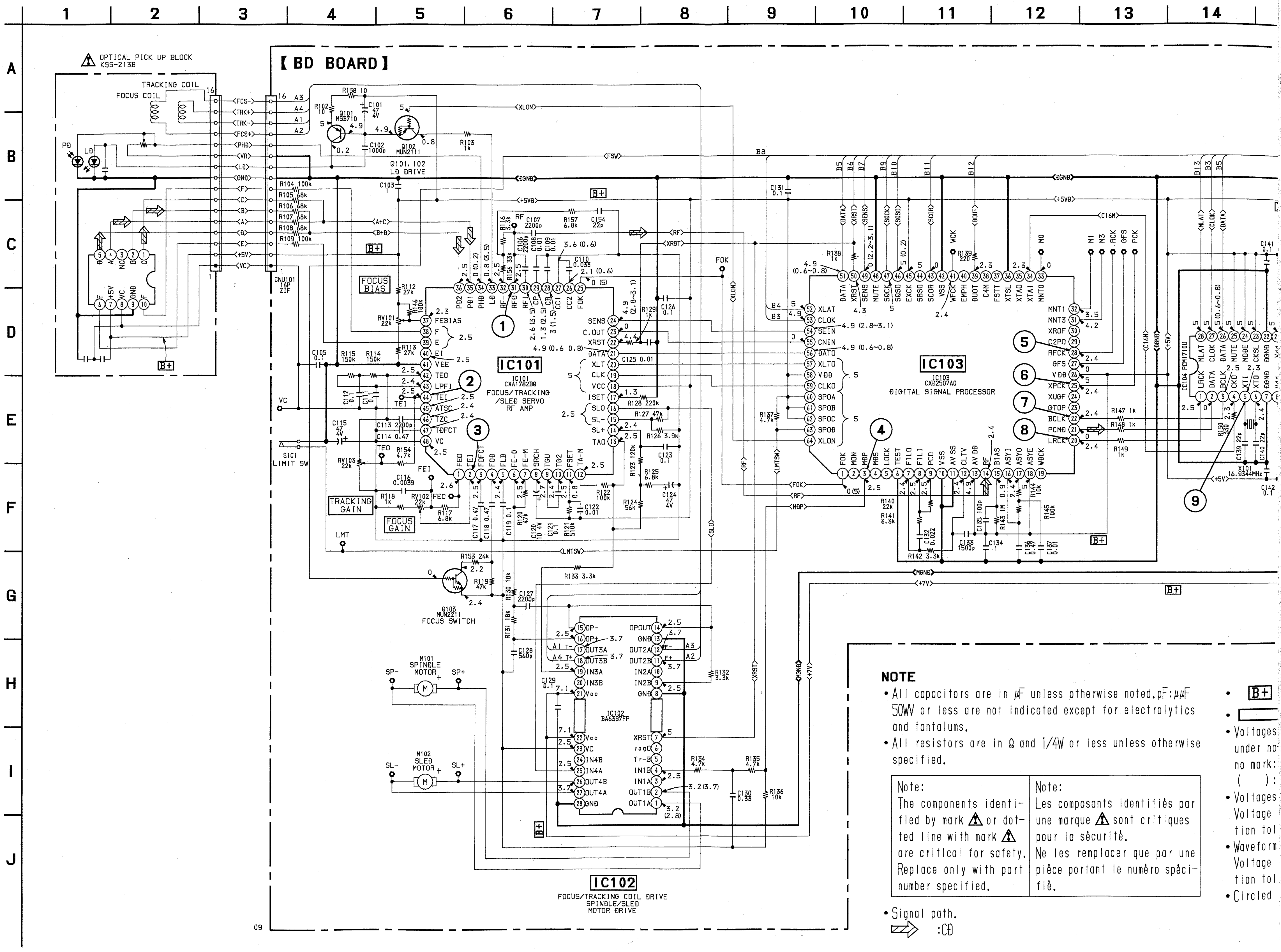


1
A B C D E F G H I J
OPTICAL
KSS-21
FOC
PD
LD


10
11
12
13
M101 SPINDLE MOTOR
S101 LIMIT SW
M102 SLED MOTOR
C120
C116
R120
R118
C147
C148
C150
RV102
R151
C149
R152
R139
R137
C131
R117
C145
C155
CNU102
IC104
C146
C142
C140
X101
C141
C139
RV103
C143
MAIN BOARD CN201
(Page 59)
1-654-671-
21
(21)

6-13. SCHEMATIC DIAGRAM — CD SECTION —

• See page 80 for IC Block Diagrams.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9
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11
12
13
14
A
B
C
D
E
F
G
H
I
J
OPTICAL PICK UP BLOCK KSS-213B
TRACKING COIL
FOCUS COIL
PD
LD
【BD BOARD】
CNU101 16P ZIF
Q101 MSB710
Q102 MUN2111
Q101, 102 LD DRIVE
R158 10
C101 47 4V
C102 1000p
R103 1k
R104 100k
R105 68k
R106 68k
R107 68k
R108 68k
R109 100k
FOCUS BIAS
RV101 22k
R112 27k
R113 27k
R115 150k
R114 150k
C105 0.1
VC
C112
C113 2200p
C114 0.47
C115 47 4V
TEI
TEO
RV103 22k
R154 4.7k
C116 0.0039
S101 LIMIT SW
TRACKING GAIN
FOCUS GAIN
R118 1k
RV102 22k
R117 6.8k
LMT
C117 0.47
C118 0.47
C119 0.1
R120 47k
C120 10 4V
C121 0.1
R121 510k
R153 24k
R119 47k
Q103 MUN2211 FOCUS SWITCH
IC101
IC101 CXA1782BQ
FOCUS/TRACKING /SLED SERVO RF AMP
①
②
③
④
⑤
⑥
⑦
⑧
⑨
FEBIAS
VEE
TEO
LPFI
TEI
ATSC
TZC
TDFCT
VC
SENS
C.OUT
XRST
DATA
XLT
CLK
VCC
ISET
SLO
SL-
SL+
TAO
C107 2200p
R157 6.8k
C154 22p
C110 0.033
C125 0.01
R128 220k
R127 47k
R126 3.9k
R129 1k
C126 0.1
C123 0.1
R123 120k
R125 6.8k
R122 100k
C122 0.01
R124 56k
C124 47 4V
FOK
IC103
IC103 CXD2507AQ
DIGITAL SIGNAL PROCESSOR
XLAT
CLOK
SEIN
CNIN
DATO
XLTO
VDD
CLKO
SPOA
SPOB
SPOC
SPOD
XLON
MNT1
MNT3
XROF
C2PO
RFCK
GFS
XPCK
XUGF
GTOP
BCLK
PCMD
LRCK
C131 0.1
R138 1k
R139 220
R137 4.7k
R140 22k
R141 3.3k
R142 3.3k
R143 1M
R144 10k
R145 100k
C132 0.022
C133 1500p
C134 1
C135 100p
C136 47
C137 0.01
R147 1k
R148 1k
R149 1k
R150 330
C139 22p
C140 22p
X101 16.9344MHz
C141 0.1
C142 0.1
IC104 PCM1710U
M101 SPINDLE MOTOR
M102 SLED MOTOR
SP-
SP+
SL-
SL+
R130 18k
R131 18k
C127 2200p
C128 560p
C129 0.1
R132 3.3k
R133 3.3k
R134 4.7k
R135 4.7k
R136 10k
C130 0.33
IC102
IC102 BA6397FP
FOCUS/TRACKING COIL DRIVE SPINDLE/SLED MOTOR DRIVE
B+
XLON
FSW
DGND
+5VD
RF
XRST
MGND
+7V
LMTSW
SLD
C16M
+5V
DATA
CLOK
MLAT
09

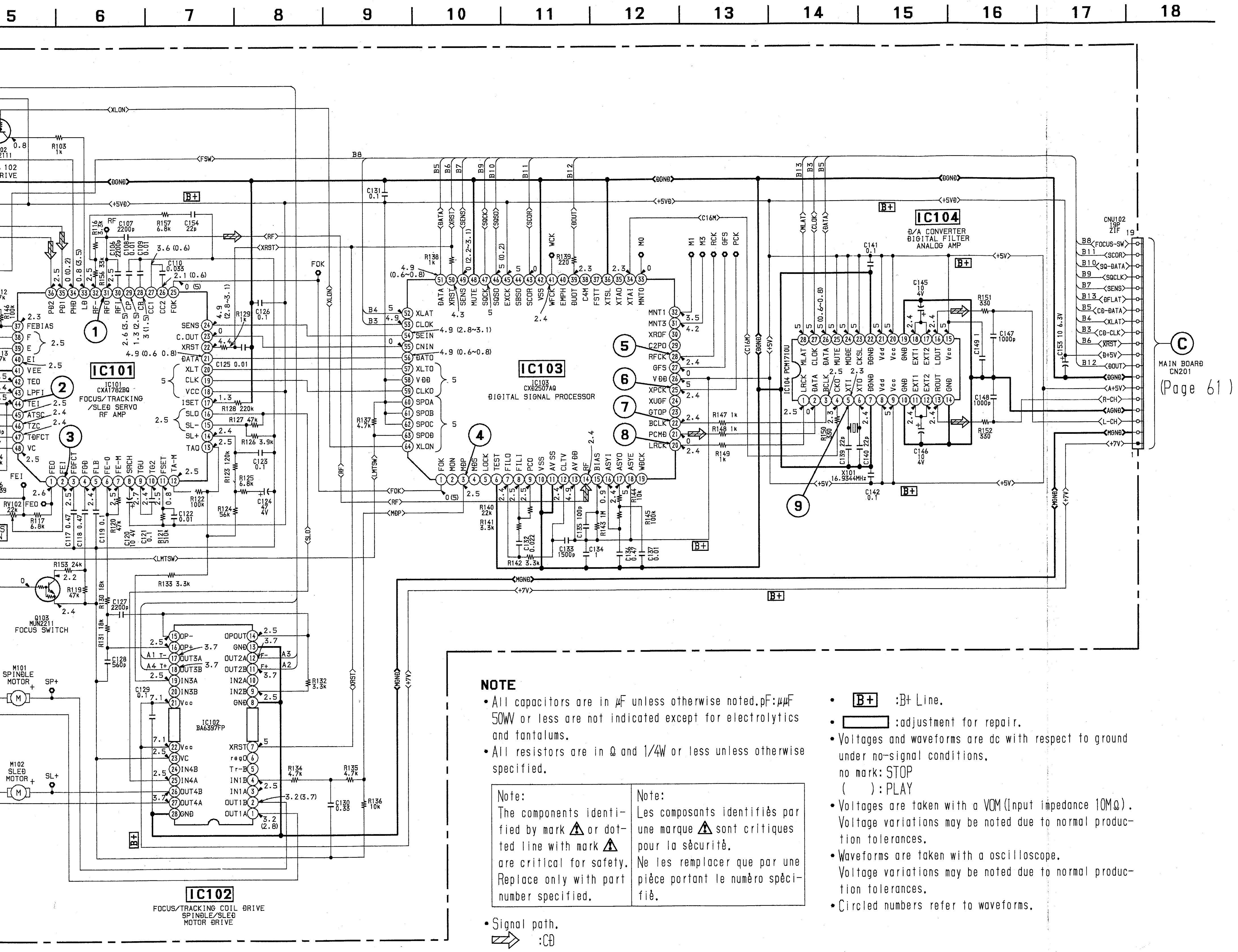
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Signal path.
  ⇨ :CD

- B+
-
- Voltages
under no
no mark:
( ):
- Voltages
Voltage
tion tol
- Waveform
Voltage
tion tol
- Circled


5
6
7
8
9
10
11
12
13
14
15
16
17
18
IC101
CXA1782BQ
FOCUS/TRACKING /SLED SERVO RF AMP
IC103
CXD2507AQ
DIGITAL SIGNAL PROCESSOR
IC104
PCM1710U
D/A CONVERTER DIGITAL FILTER ANALOG AMP
IC102
BA6397FP
FOCUS/TRACKING COIL DRIVE SPINDLE/SLED MOTOR DRIVE
Q103
MUN2211
FOCUS SWITCH
M101
SPINDLE MOTOR
M102
SLED MOTOR
X101
16.9344MHz
CNU102
19P
ZIF
C
MAIN BOARD CN201
(Page 61)
B+

NOTE

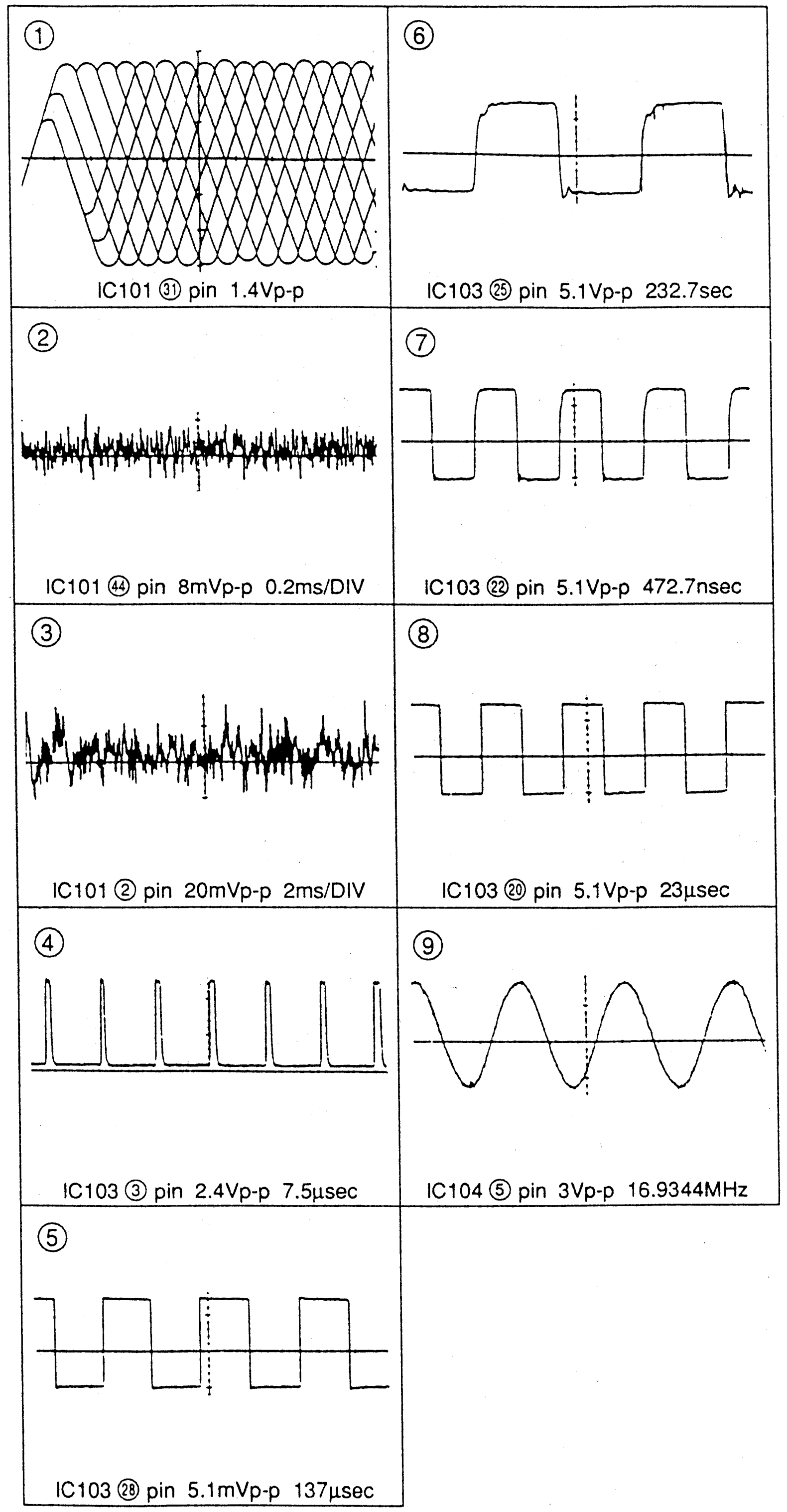
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiès par une marque ⚠ sont critiques pour la sècuritè. Ne les remplacer que par une pièce portant le numèro spècifiè.

- Signal path.
  ⇨ :CD

- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
  ( ): PLAY
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

- Waveforms


① IC101 ㉛ pin 1.4Vp-p

② IC101 ㊹ pin 8mVp-p 0.2ms/DIV

③ IC101 ② pin 20mVp-p 2ms/DIV

④ IC103 ③ pin 2.4Vp-p 7.5μsec

⑤ IC103 ㉘ pin 5.1mVp-p 137μsec

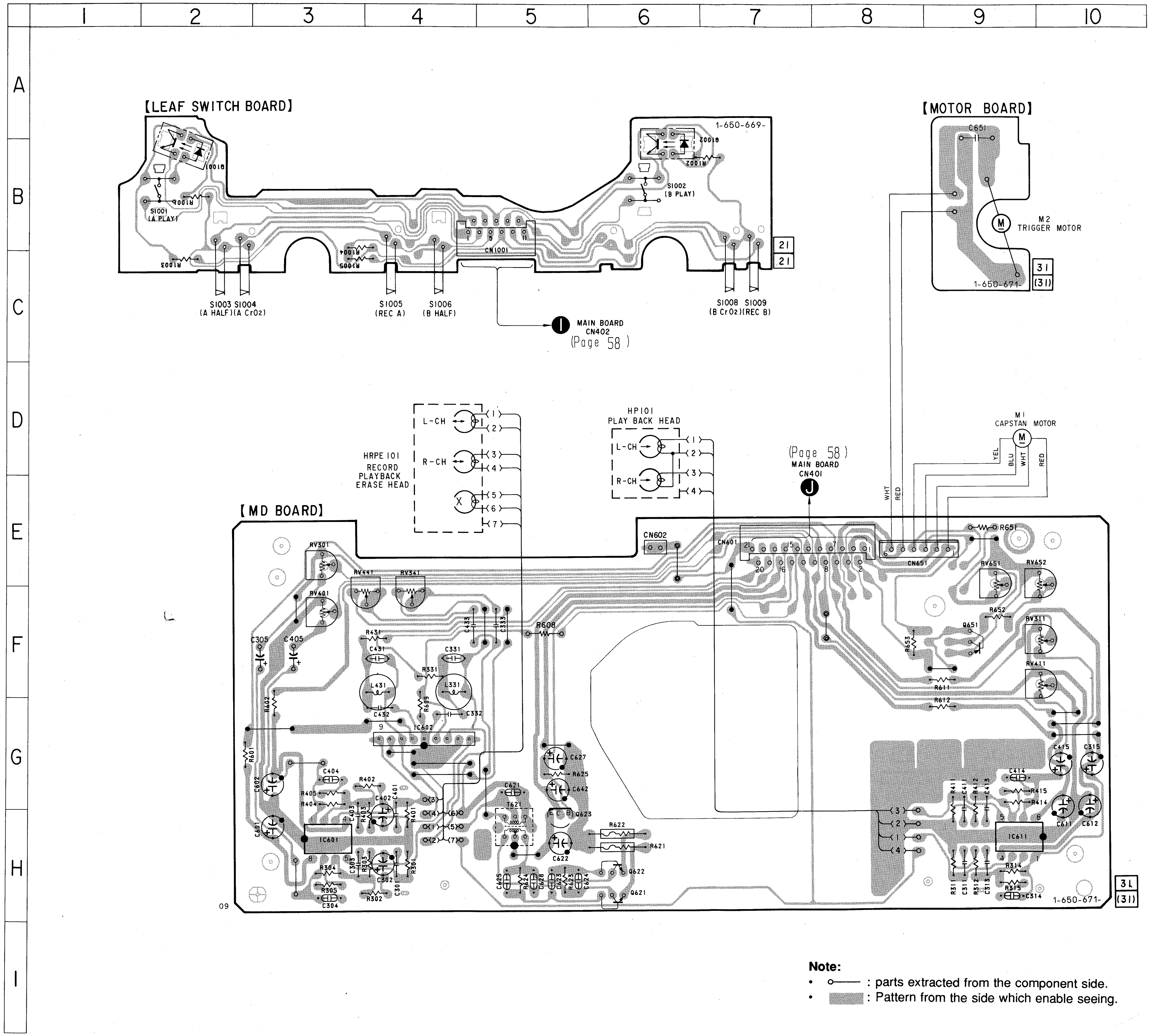
⑥ IC103 ㉕ pin 5.1Vp-p 232.7sec

⑦ IC103 ㉒ pin 5.1Vp-p 472.7nsec

⑧ IC103 ⑳ pin 5.1Vp-p 23μsec

⑨ IC104 ⑤ pin 3Vp-p 16.9344MHz

6-14. PRINTED WIRING BOARD — MD SECTION —
• See page 19 for Circuit Boards Location.


1
2
3
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7
8
9
10
A
B
C
D
E
F
G
H
I
[LEAF SWITCH BOARD]
1-650-669-
S1001 (A PLAY)
S1002 (B PLAY)
CN1001
S1003 S1004 (A HALF)(A CrO2)
S1005 (REC A)
S1006 (B HALF)
S1008 S1009 (B CrO2)(REC B)
MAIN BOARD CN402 (Page 58)
[MOTOR BOARD]
C651
M2 TRIGGER MOTOR
1-650-671-
HRPE101 RECORD PLAYBACK ERASE HEAD
L-CH
R-CH
HP101 PLAY BACK HEAD
(Page 58) MAIN BOARD CN401
M1 CAPSTAN MOTOR
YEL
BLU
WHT
RED
[MD BOARD]
CN602
CN601
CN651
RV301
RV401
RV441
RV341
RV651
RV652
RV311
RV411
C305
C405
R431
C431
C331
R331
L431
L331
C432
C332
IC602
R608
R652
Q651
R653
R611
R612
R601
C602
C601
C404
R402
R405
R404
C402
C403
IC601
R401
C627
R625
C642
C621
T621
Q623
R622
R621
C622
Q622
Q621
C415
C315
C414
R415
R414
C611
C612
IC611
R411
R412
R413
R314
R315
C314
R304
R305
C304
C302
R302
R301
1-650-671-
3L (31)
21
09

Note:
- o—— : parts extracted from the component side.
- ▨ : Pattern from the side which enable seeing.

• **Semiconductor Location**

Ref. No.	Location
IC601	H-3
IC602	G-4
IC611	H-9
Q621	I-6
Q622	H-6
Q623	H-5
Q651	F-9
Q1001	B-2
Q1002	B-6

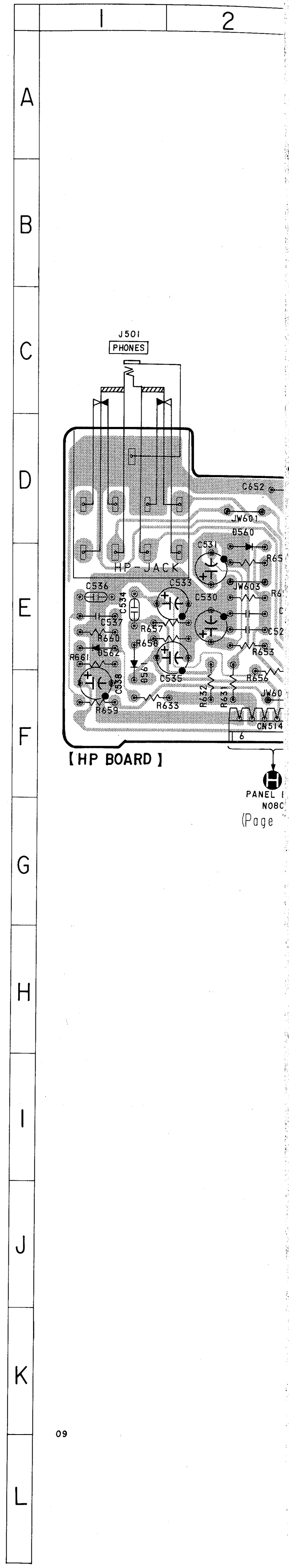
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D201	K-11	IC402	D-6
D202	K-12	IC601	E-4
D560	D-2	IC701	I-8
D561	E-1	IC702	I-6
D562	E-1	IC802	B-13
D401	E-7	IC901	D-11
D701	I-7	IC902	G-10
D702	I-6	IC1001	G-13
D703	I-6	IC1002	F-15
D704	H-6	IC1003	E-18
D705	I-6	IC1004	F-18
D706	I-6	IC1201	K-23
D707	L-10	IC1202	G-15
D708	F-9		
D721	F-10	Q301	E-8
D722	C-12	Q351	A-10
D1001	B-15	Q401	B-7
D1002	B-16	Q402	E-8
D1003	D-17	Q403	C-8
D1004	C-17	Q406	D-7
D1005	D-17	Q407	D-7
D1006	C-17	Q408	D-7
D1007	G-13	Q409	E-7
D1008	A-16	Q410	D-7
D1009	D-17	Q411	D-6
D1010	F-17	Q412	D-7
D1011	C-15	Q701	I-7
D1013	D-14	Q820	G-9
D1014	C-14	Q821	B-13
D1016	B-8	Q823	H-10
D1017	E-16	Q871	B-13
D1018	F-12	Q901	F-10
D1021	B-7	Q902	F-11
D1022	B-8	Q951	F-10
D1023	D-14	Q952	F-10
D1059	E-17	Q953	G-11
D1069	F-17	Q954	G-11
D1201	K-22	Q1001	F-13
D1202	J-25	Q1002	F-13
D1204	F-12	Q1003	A-16
D1205	H-14	Q1006	D-14
D1230	H-14	Q1201	J-22
D1250	C-16	Q1204	H-14
D1251	J-24	Q1205	H-14
D1309	C-16	Q1206	G-14
D1310	C-16	Q1207	G-16
		Q1208	G-15
IC401	C-8	Q1251	I-25

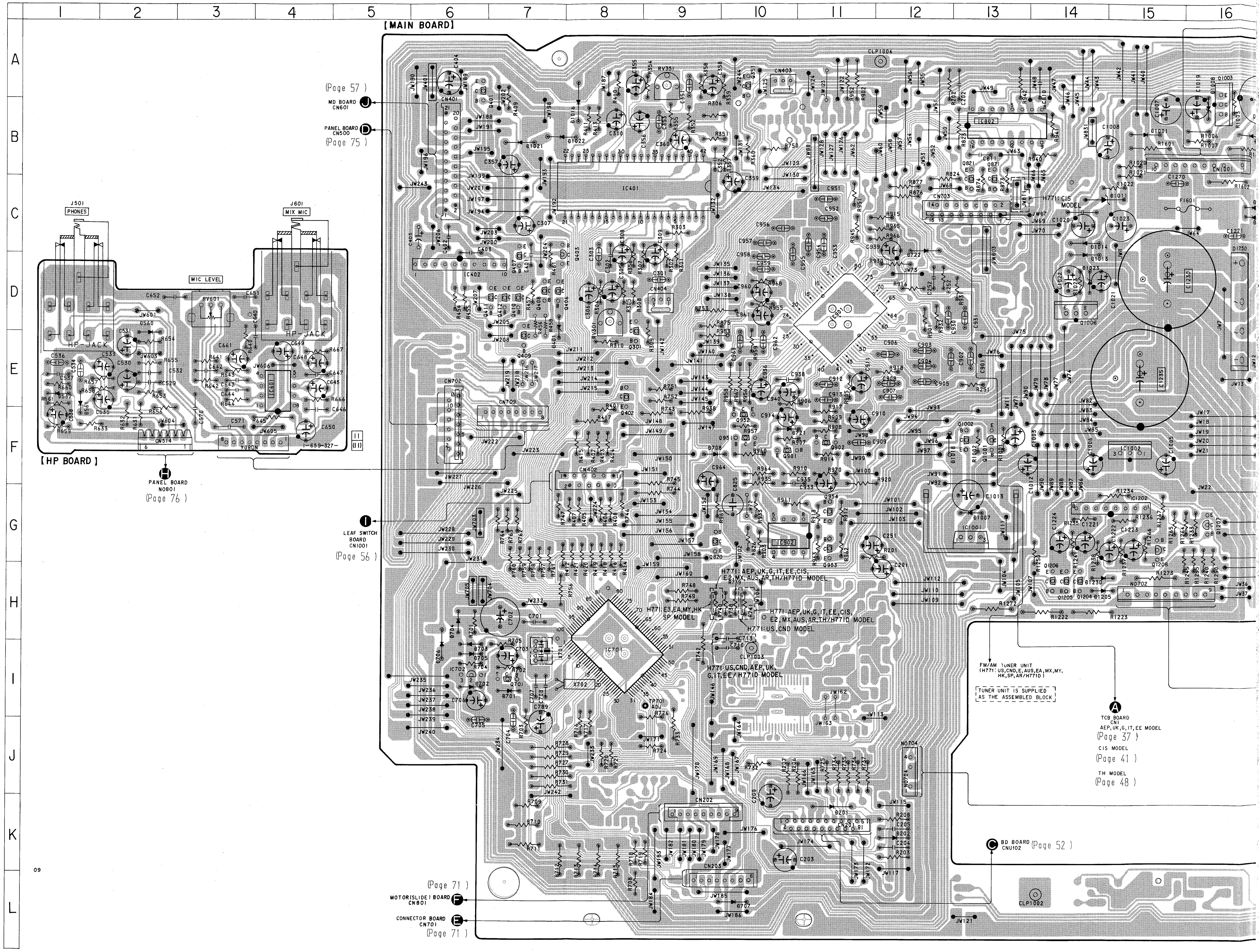
Note:
- o—— : parts extracted from the component side.
- Δ : internal component.
- ▨ : Pattern from the side which enable seeing.
- Abbreviation

CND : Canadian model.
G : German model.
IT : Italian model.
EE : East European model.
EA : Saudi Arabia model.
MX : Mexican model.
HK : Hong Kong model.
SP : Singapore model.
MY : Malaysia model.
AUS : Australian model.
AR : Argentine model.
TH : Thailand model.

6-15. PRINTED WIRING B
• See page 19 for C


1
2
A
B
C
D
E
F
G
H
I
J
K
L
J501 PHONES
HP-JACK
C652
C531
C533
C530
C536
C534
C537
R657
R658
R653
R655
R654
R661
C538
C535
R659
R633
C532
R652
CN514
[HP BOARD]
PANEL
09

6-15. PRINTED WIRING BOARD — MAIN SECTION —
• See page 19 for Circuit Boards Location.


[MAIN BOARD]
[HP BOARD]
J501
PHONES
J601
MIX MIC
MIC LEVEL
HP-JACK
(Page 57)
MD BOARD CN601
PANEL BOARD CN500
(Page 75)
PANEL BOARD N0801
(Page 76)
LEAF SWITCH BOARD CN1001
(Page 56)
IC401
IC402
IC701
IC802
IC902
IC1001
IC1002
H771: AEP,UK,G,IT,EE,CIS, E2,MX,AUS,AR,TH/H771D MODEL
H771: E3,EA,MY,HK SP MODEL
H771: AEP,UK,G,IT,EE,CIS, E2,MX,AUS,AR,TH/H771D MODEL
H771: US,CND MODEL
H771: US,CND,AEP,UK, G,IT,EE/ H771D MODEL
TP701 ADJ
CLP1003
CLP1004
CLP1002
FM/AM TUNER UNIT (H771: US,CND,E,AUS,EA,MX,MY, HK,SP,AR/H771D)
TUNER UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK
TCB BOARD CN1 AEP,UK,G,IT,EE MODEL
(Page 37)
CIS MODEL
(Page 41)
TH MODEL
(Page 48)
BD BOARD CNU102 (Page 52)
(Page 71)
MOTOR(SLIDE) BOARD CN801
CONNECTOR BOARD CN701
(Page 71)
H771: CIS MODEL
09

emiconductor
ocation

f. No.	Location
601	H-3
602	G-4
611	H-9
621	I-6
622	H-6
623	H-5
651	F-9
1001	B-2
1002	B-6

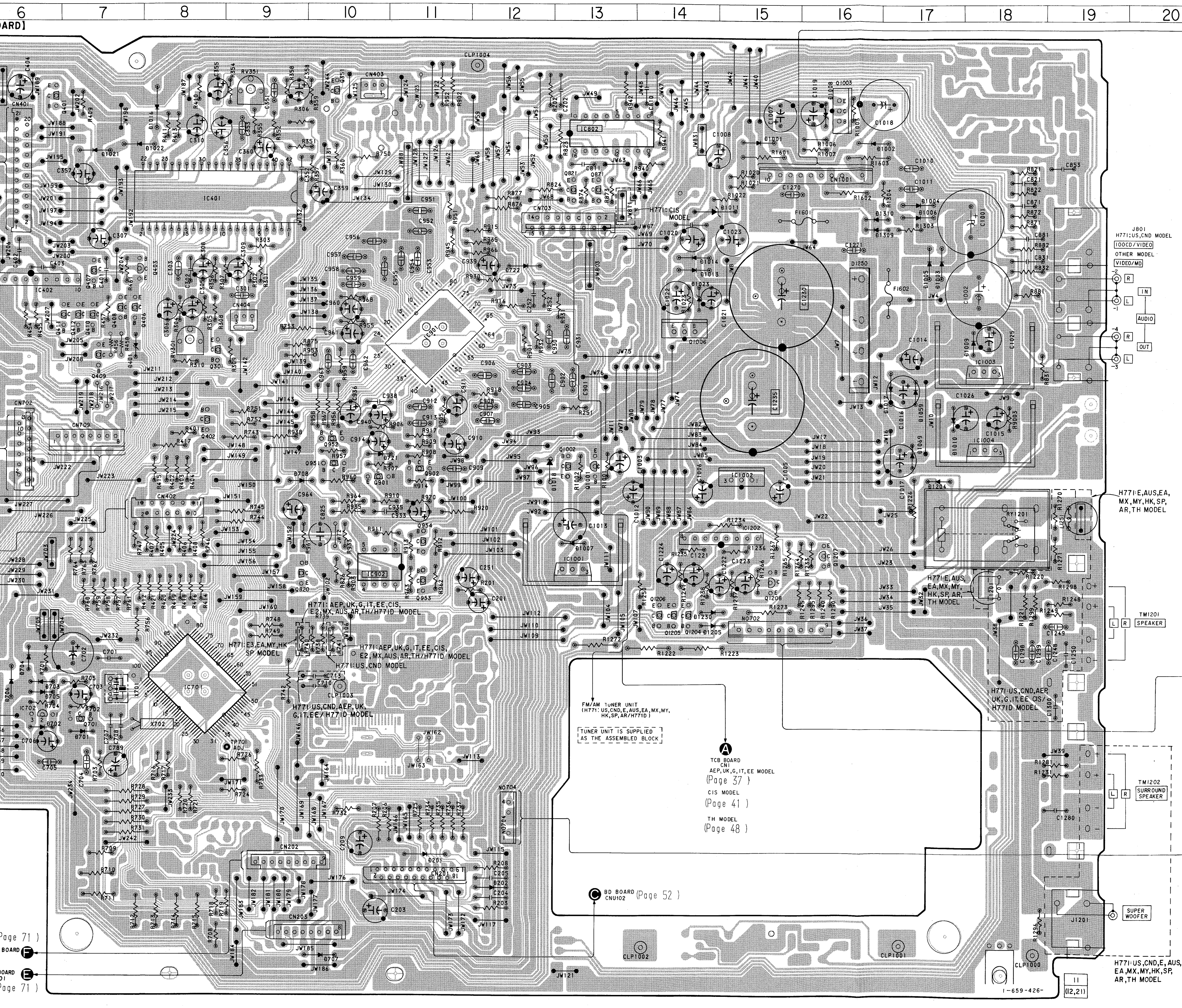
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	K-11	IC402	D-6
D202	K-12	IC601	E-4
D560	D-2	IC701	I-8
D561	E-1	IC702	I-6
D562	E-1	IC802	B-13
D401	E-7	IC901	D-11
D701	I-7	IC902	G-10
D702	I-6	IC1001	G-13
D703	I-6	IC1002	F-15
D704	H-6	IC1003	E-18
D705	I-6	IC1004	F-18
D706	I-6	IC1201	K-23
D707	L-10	IC1202	G-15
D708	F-9		
D721	F-10	Q301	E-8
D722	C-12	Q351	A-10
D1001	B-15	Q401	B-7
D1002	B-16	Q402	E-8
D1003	D-17	Q403	C-8
D1004	C-17	Q406	D-7
D1005	D-17	Q407	D-7
D1006	C-17	Q408	D-7
D1007	G-13	Q409	E-7
D1008	A-16	Q410	D-7
D1009	D-17	Q411	D-6
D1010	F-17	Q412	D-7
D1011	C-15	Q701	I-7
D1013	D-14	Q820	G-9
D1014	C-14	Q821	B-13
D1016	B-8	Q823	H-10
D1017	E-16	Q871	B-13
D1018	F-12	Q901	F-10
D1021	B-7	Q902	F-11
D1022	B-8	Q951	F-10
D1023	D-14	Q952	F-10
D1059	E-17	Q953	G-11
D1069	F-17	Q954	G-11
D1201	K-22	Q1001	F-13
D1202	J-25	Q1002	F-13
D1204	F-12	Q1003	A-16
D1205	H-14	Q1006	D-14
D1230	H-14	Q1201	J-22
D1250	C-16	Q1204	H-14
D1251	J-24	Q1205	H-14
D1309	C-16	Q1206	G-14
D1310	C-16	Q1207	G-16
		Q1208	G-15
IC401	C-8	Q1251	I-25

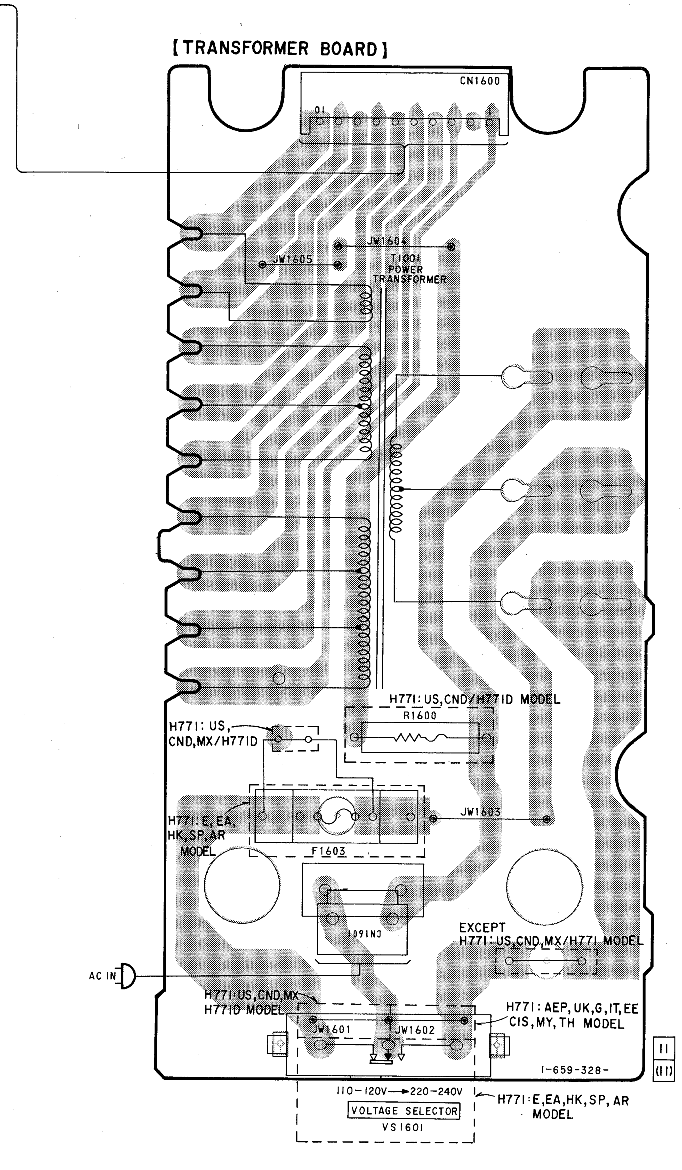
Note:

- ○—— : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.
- Abbreviation

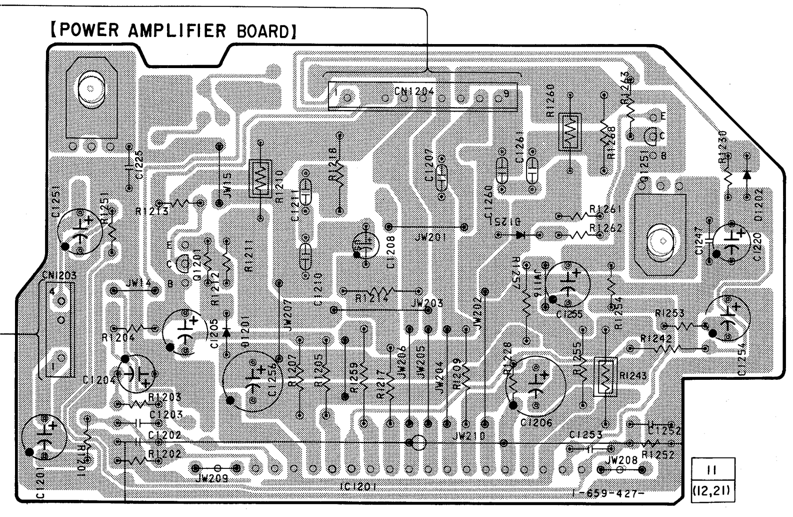
CND : Canadian model.
G : German model.
IT : Italian model.
EE : East European model.
EA : Saudi Arabia model.
MX : Mexican model.
HK : Hong Kong model.
SP : Singapore model.
MY : Malaysia model.
AUS : Australian model.
AR : Argentine model.
TH : Thailand model.


6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
OARD]
IC401
IC402
IC701
IC702
IC801
IC802
IC901
IC902
IC1001
IC1002
IC1003
IC1004
IC1201
CN401
CN402
CN403
CN404
CN702
CN703
CN709
CN202
CN205
CN1001
H771: CIS MODEL
J801
H771: US, CND MODEL
100CD/VIDEO
OTHER MODEL
VIDEO/MD
IN
AUDIO
OUT
R
L
H771: E, AUS, EA, MX, MY, HK, SP, AR, TH MODEL
RY1201
H771: E, AUS, EA, MX, MY, HK, SP, AR, TH MODEL
TM1201
SPEAKER
H771: AEP, UK, G, IT, EE, CIS, E2, MX, AUS, AR, TH/H771D MODEL
H771: E3, EA, MY, HK SP MODEL
H771: AEP, UK, G, IT, EE, CIS, E2, MX, AUS, AR, TH/H771D MODEL
H771: US, CND MODEL
H771: US, CND, AEP, UK, G, IT, EE/H771D MODEL
H771: US, CND, AEP, UK, G, IT, EE, CIS, H771D MODEL
FM/AM TUNER UNIT
(H771: US, CND, E, AUS, EA, MX, MY, HK, SP, AR/H771D)
TUNER UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK
A
TCB BOARD
CN1
AEP, UK, G, IT, EE MODEL
(Page 37)
CIS MODEL
(Page 41)
TH MODEL
(Page 48)
C
BD BOARD
CNU102
(Page 52)
TM1202
SURROUND SPEAKER
SUPER WOOFER
J1201
H771: US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH MODEL
CLP1000
CLP1001
CLP1002
CLP1003
CLP1004
1-659-426-
11
(12,21)
(Page 71)
BOARD
F
BOARD
E
(Page 71)

[TRANSFORMER BOARD]

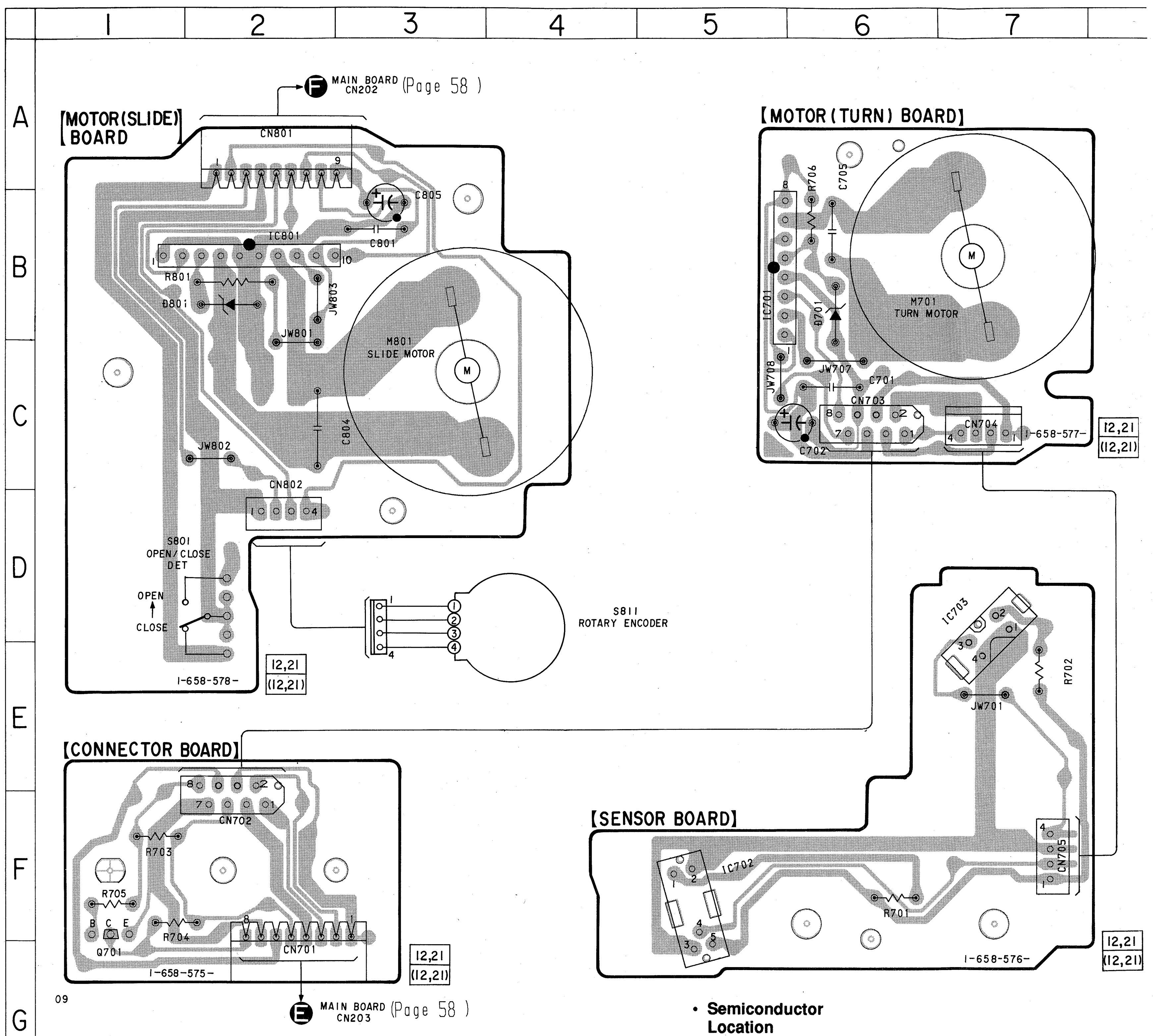

CN1600
JW1605
JW1604
T1001
POWER TRANSFORMER
H771: US, CND/H771D MODEL
R1600
H771: US, CND, MX/H771D
H771: E, EA, HK, SP, AR MODEL
F1603
JW1603
EXCEPT H771: US, CND, MX/H771 MODEL
AC IN
H771: US, CND, MX H771D MODEL
JW1601
JW1602
H771: AEP, UK, G, IT, EE CIS, MY, TH MODEL
1-659-328-
11
(11)
110-120V → 220-240V
VOLTAGE SELECTOR
VS1601
H771: E, EA, HK, SP, AR MODEL

[POWER AMPLIFIER BOARD]


CN1204
CN1203
IC1201
1-659-427-
11
(12,21)

6-18. PRINTED WIRING BOARD — CD MOTOR SECTION —

• See page 19 for Circuit Boards Location.

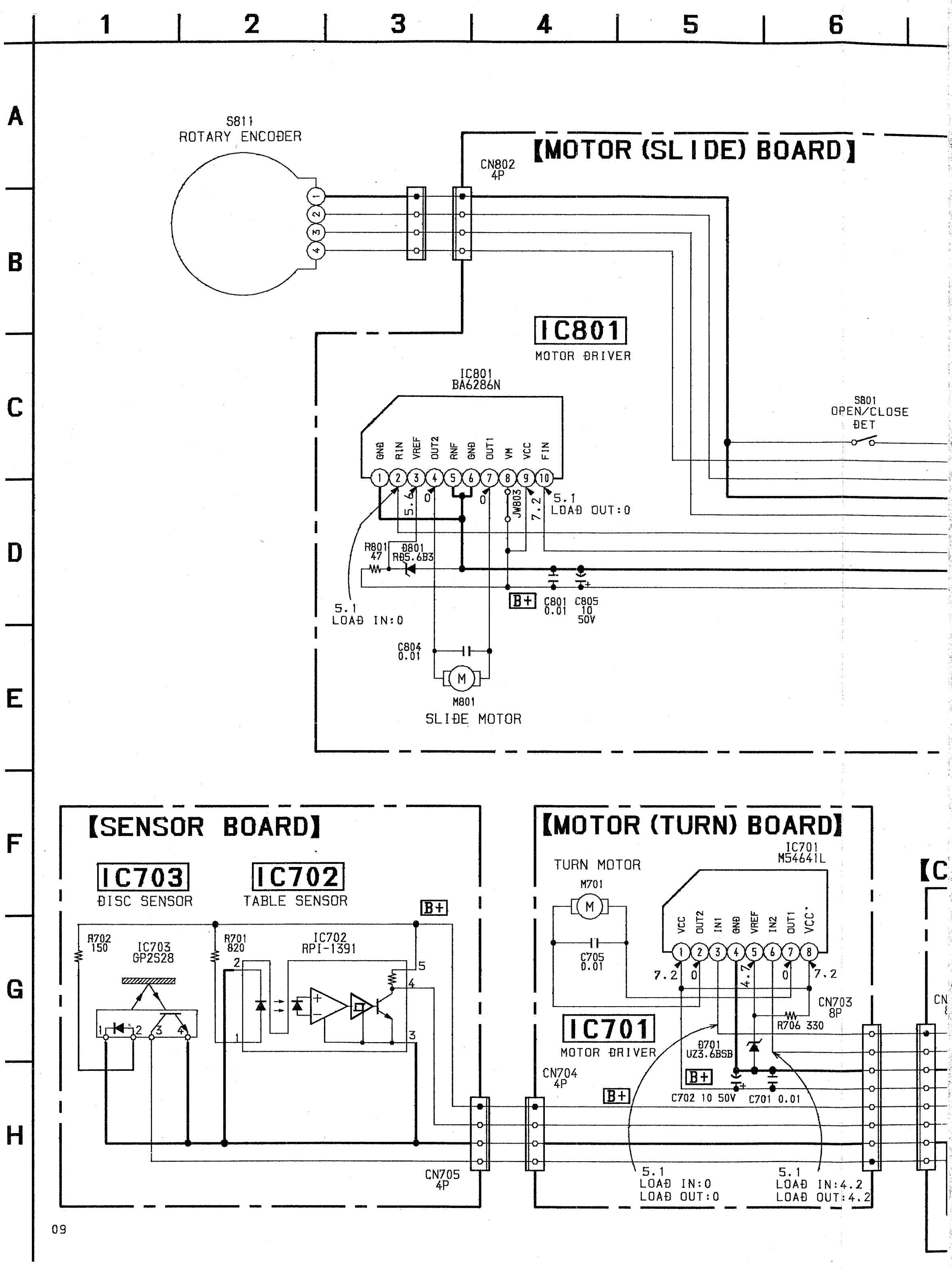

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
F MAIN BOARD CN202 (Page 58)
[MOTOR(SLIDE) BOARD]
CN801
9
C805
IC801
10
C801
R801
D801
JW803
JW801
M801
SLIDE MOTOR
M
C804
JW802
CN802
S801
OPEN/CLOSE
DET
OPEN
CLOSE
1-658-578-
12,21
(12,21)
S811
ROTARY ENCODER
[MOTOR(TURN) BOARD]
R706
C705
IC701
D701
M701
TURN MOTOR
JW708
JW707
C701
CN703
C702
CN704
1-658-577-
12,21
(12,21)
IC703
R702
JW701
[CONNECTOR BOARD]
CN702
R703
R705
B C E
Q701
R704
CN701
1-658-575-
12,21
(12,21)
[SENSOR BOARD]
IC702
CN705
R701
1-658-576-
12,21
(12,21)
09
E MAIN BOARD CN203 (Page 58)

- **Semiconductor Location**

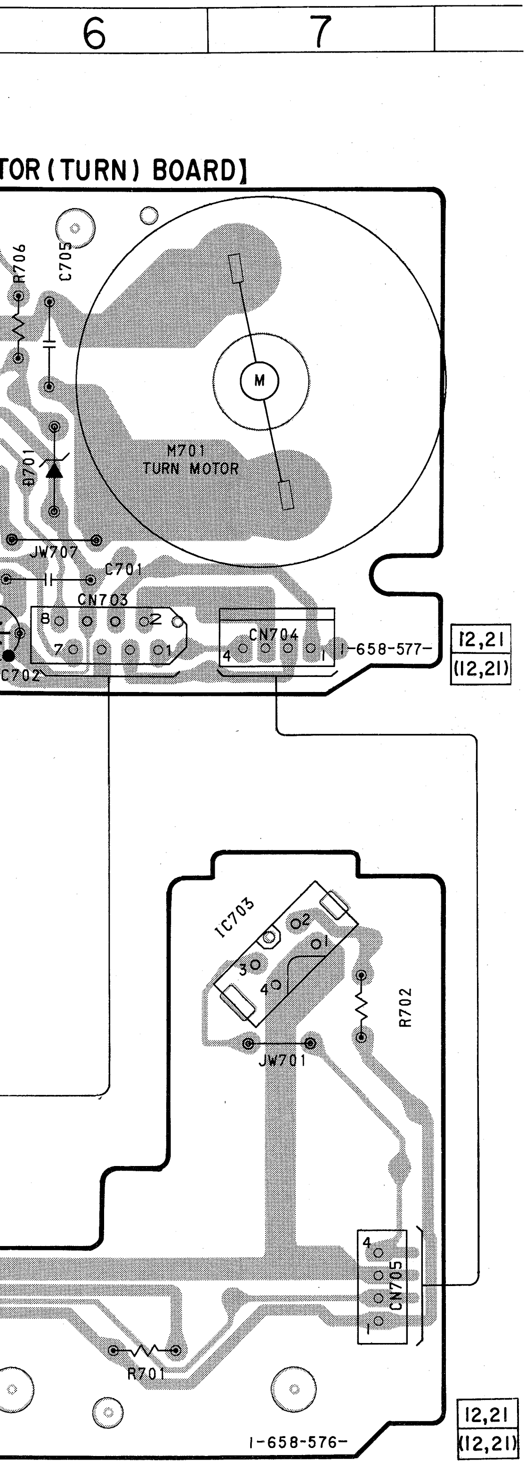
Ref. No.	Location
D701 D801	B-6 B-2
IC701 IC702 IC703 IC801	B-5 F-5 D-7 B-2
Q701	F-1

Note:
- ○—— : parts extracted from the component side.
- ▨ : Pattern from the side which enable seeing.

6-19. SCHEMATIC DIAGRAM — CD MOTOR SECTION —


1
2
3
4
5
6
A
B
C
D
E
F
G
H
S811
ROTARY ENCODER
[MOTOR (SLIDE) BOARD]
CN802
4P
IC801
MOTOR DRIVER
IC801
BA6286N
GND RIN VREF OUT2 RNF GND OUT1 VM VCC FIN
5.6
0
0
JW803
7.2
5.1
LOAD OUT:0
S801
OPEN/CLOSE
DET
R801
47
D801
RD5.6B3
5.1
LOAD IN:0
B+
C801
0.01
C805
10
50V
C804
0.01
M801
SLIDE MOTOR
[SENSOR BOARD]
IC703
DISC SENSOR
IC702
TABLE SENSOR
B+
R702
150
IC703
GP2S28
R701
820
IC702
RPI-1391
CN705
4P
[MOTOR (TURN) BOARD]
TURN MOTOR
M701
C705
0.01
IC701
M54641L
VCC OUT2 IN1 GND VREF IN2 OUT1 VCC
7.2
0
4.7
0
7.2
CN703
8P
R706 330
IC701
MOTOR DRIVER
D701
UZ3.6BSB
CN704
4P
B+
C702 10 50V
C701 0.01
5.1
LOAD IN:0
LOAD OUT:0
5.1
LOAD IN:4.2
LOAD OUT:4.2
[C
CN
09

6-19. SCHEMATIC DIAGRAM — CD MOTOR SECTION —

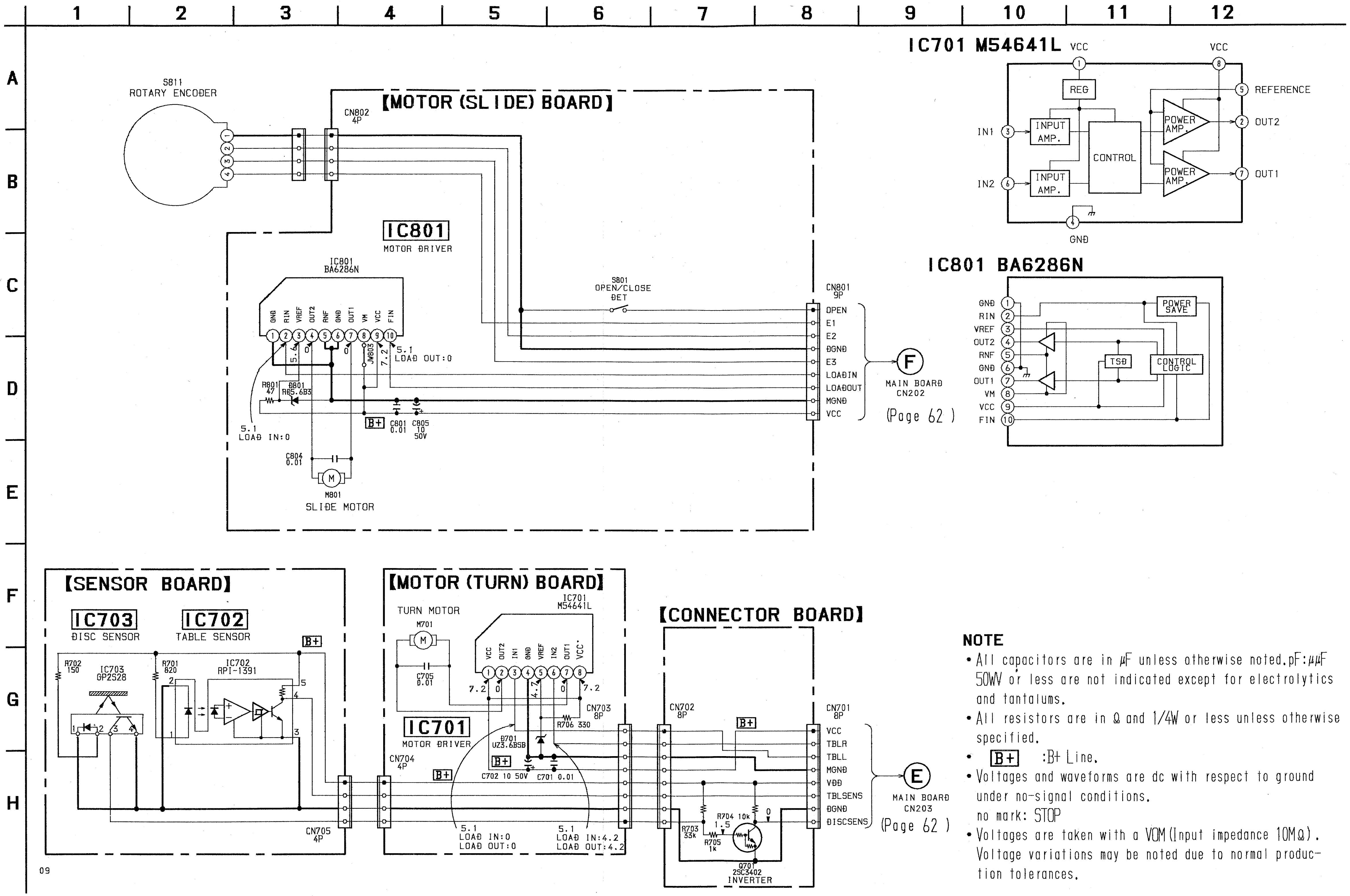

6
7
TOR (TURN) BOARD]
R706
C705
D701
M701
TURN MOTOR
JW707
C701
CN703
CN704
C702
1-658-577-
12,21
(12,21)
IC703
R702
JW701
CN705
R701
1-658-576-
12,21
(12,21)

ctor

ation

Note:

- ○—— : parts extracted from the component side.
- ▨ : Pattern from the side which enable seeing.


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H
IC701 M54641L
VCC
REG
INPUT AMP.
CONTROL
POWER AMP.
IN1
IN2
GND
REFERENCE
OUT2
OUT1
IC801 BA6286N
GND RIN VREF OUT2 RNF GND OUT1 VM VCC FIN
POWER SAVE
TSD
CONTROL LOGIC
S811
ROTARY ENCODER
[MOTOR (SLIDE) BOARD]
CN802 4P
IC801
MOTOR DRIVER
IC801 BA6286N
S801 OPEN/CLOSE DET
CN801 9P
OPEN
E1
E2
DGND
E3
LOADIN
LOADOUT
MGND
VCC
MAIN BOARD CN202
(Page 62)
R801 47
D801 RD5.6B3
JW803
5.1 LOAD OUT:0
5.1 LOAD IN:0
C801 0.01
C805 10 50V
C804 0.01
M801
SLIDE MOTOR
[SENSOR BOARD]
IC703
DISC SENSOR
IC702
TABLE SENSOR
R702 150
IC703 GP2S28
R701 820
IC702 RPI-1391
CN705 4P
[MOTOR (TURN) BOARD]
TURN MOTOR
M701
C705 0.01
IC701 M54641L
IC701
MOTOR DRIVER
CN704 4P
D701 UZ5.6BSB
R706 330
CN703 8P
C702 10 50V
C701 0.01
5.1 LOAD IN:0 LOAD OUT:0
5.1 LOAD IN:4.2 LOAD OUT:4.2
[CONNECTOR BOARD]
CN702 8P
CN701 8P
VCC
TBLR
TBLL
MGND
VDD
TBLSENS
DGND
DISCSENS
MAIN BOARD CN203
(Page 62)
R703 33k
R704 10k
R705 1k
Q701 2SC3402
INVERTER
B+
09

NOTE

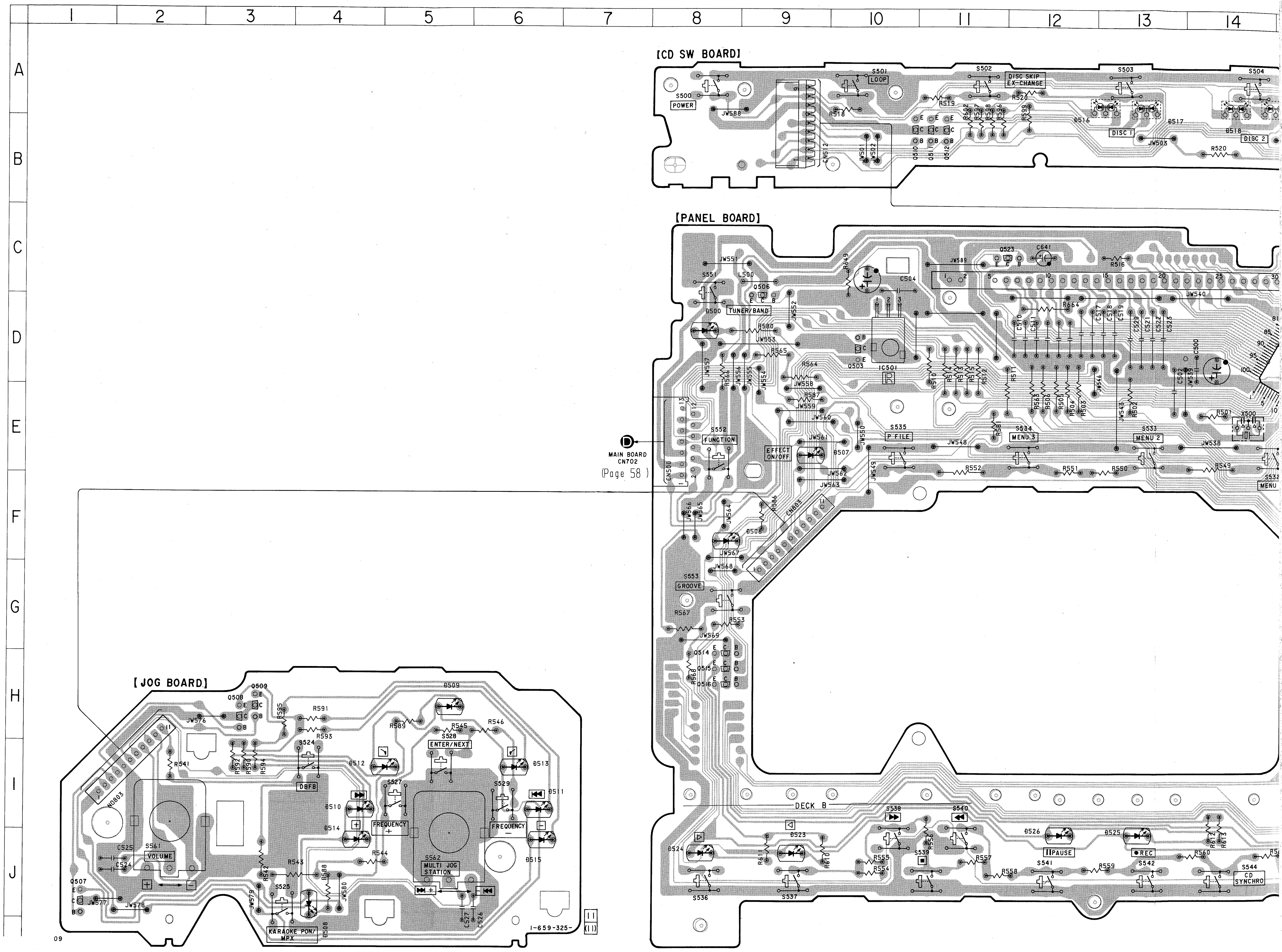
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- [B+] : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

6-20. PRINTED WIRING BOARD — PANEL SECTION —

- See page 19 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D500	D-8	D543	G-17
D501	F-15	D545	G-16
D503	F-16	D547	G-15
D505	F-17	D549	G-18
D506	F-9	D551	G-18
D507	E-10	D553	G-17
D508	K-4	D555	G-16
D509	H-5	D557	G-15
D510	I-4		
D511	I-6	IC500	D-15
D512	I-4	IC501	D-10
D513	I-16		
D514	I-4	Q500	D-18
D515	J-6	Q501	F-18
D516	B-12	Q502	E-18
D517	B-13	Q503	D-10
D518	B-14	Q504	E-17
D519	B-15	Q505	E-17
D520	B-15	Q506	C-9
D521	B-16	Q507	J-1
D522	B-20	Q508	H-3
D523	J-9	Q509	H-3
D524	J-8	Q510	B-10
D525	I-13	Q511	B-11
D526	I-12	Q512	B-11
D527	J-20	Q513	B-20
D528	J-19	Q514	G-8
D529	G-18	Q515	H-8
D531	G-18	Q516	H-8
D533	G-17	Q517	H-19
D535	G-16	Q518	H-19
D537	G-15	Q519	H-19
D539	G-18	Q523	C-11
D541	G-18		


1
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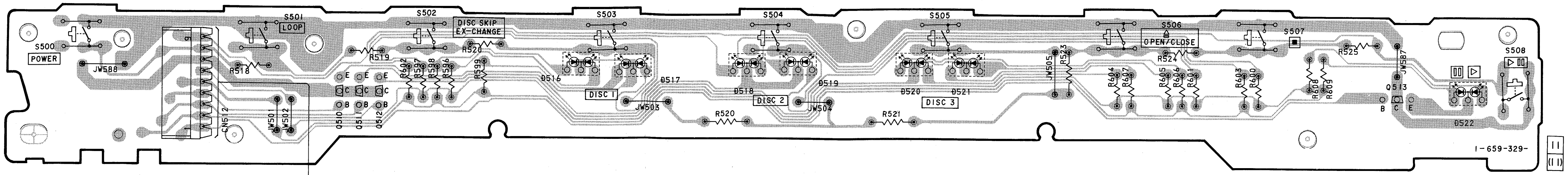
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
[CD SW BOARD]
S500
POWER
S501
LOOP
S502
DISC SKIP EX-CHANGE
S503
S504
DISC 1
DISC 2
JW588
CN512
JW501
JW502
R518
R519
R520
D516
D517
D518
JW503
Q510
Q511
Q512
[PANEL BOARD]
JW551
S551
L500
Q506
TUNER/BAND
D500
R649
C504
JW589
Q523
C641
R516
JW540
R580
JW553
R565
R564
JW558
R587
JW559
Q503
IC501
JW560
S552
FUNCTION
EFFECT ON/OFF
D507
S535
P FILE
S534
MENU 3
JW548
S533
MENU 2
JW538
R501
X500
R552
R551
R550
R549
S532
MENU
JW562
JW563
JW549
MAIN BOARD CN702
(Page 58)
CN560
CN803
D506
JW567
JW568
S553
GROOVE
R567
R553
JW569
Q514
Q515
Q516
R568
DECK B
S538
S540
D523
D524
D526
D525
IIPAUSE
●REC
R611
R610
R555
R554
S539
R557
R558
S541
R559
S542
R560
S544
CD SYNCHRO
S536
S537
[JOG BOARD]
Q509
Q508
JW576
R595
R591
R593
D509
R589
R545
R546
S528
ENTER/NEXT
S524
R592
R590
R594
R541
D512
D513
CN803
DBFB
S527
S529
D510
D514
D511
FREQUENCY +
FREQUENCY −
S561
VOLUME
C525
C524
R544
S562
MULTI JOG STATION
D515
R543
R542
S525
D588
JW580
Q507
JW577
JW578
JW579
KARAOKE PON/MPX
D508
C527
C524
1-659-325-
11
(11)
09

Note:

- ○—— : parts extracted from the component side.
- ▨ : Pattern from the side which enable seeing.

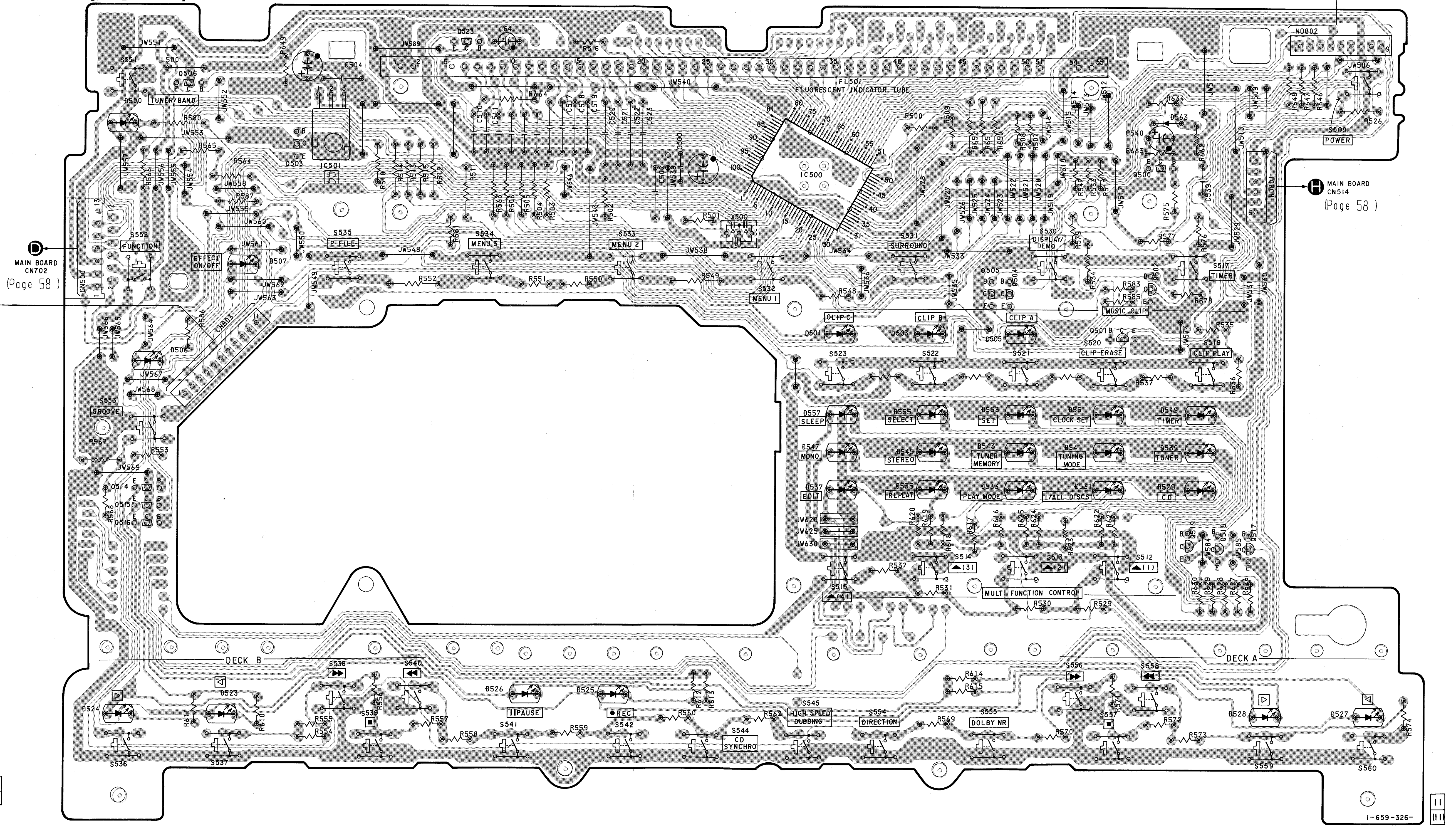
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

[CD SW BOARD]

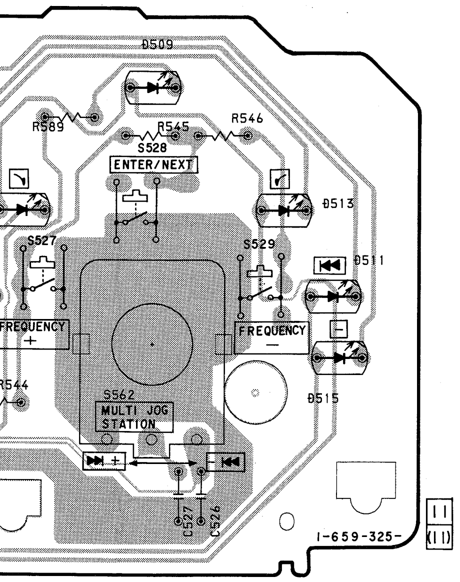


S500
POWER
S501
LOOP
S502
DISC SKIP EX-CHANGE
S503
DISC 1
S504
DISC 2
S505
DISC 3
S506
OPEN/CLOSE
S507
S508
CN512
Q510
Q511
Q512
Q513
D516
D517
D518
D519
D520
D521
D522
JW588
JW501
JW502
JW503
JW504
JW505
JW587
R518
R519
R520
R521
R524
R525
1-659-329-
11
(11)

[PANEL BOARD]

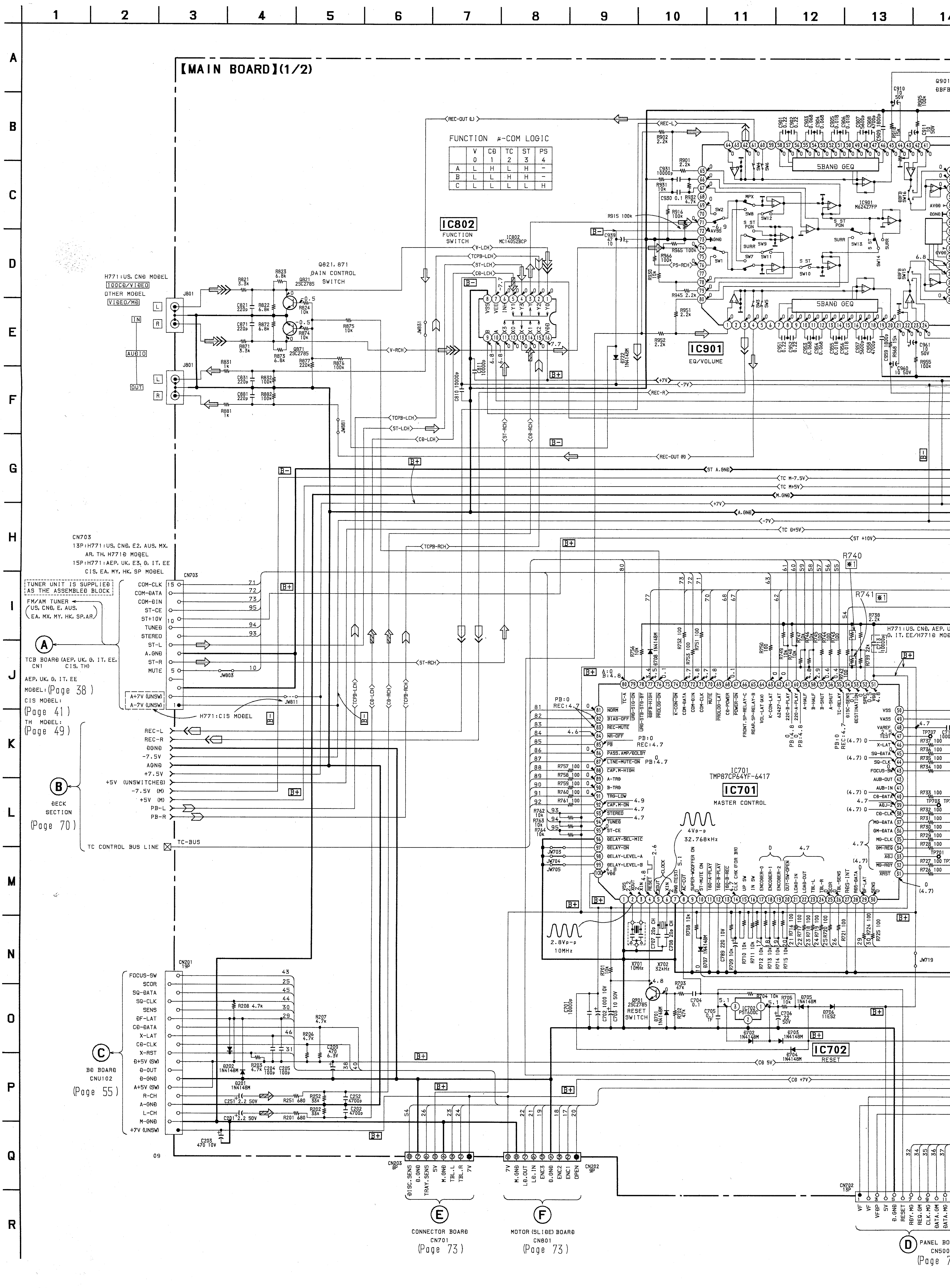


FL501
FLUORESCENT INDICATOR TUBE
IC500
IC501
X500
ND802
ND801
MAIN BOARD CN514
(Page 58)
MAIN BOARD CN702
(Page 58)
CN500
CN803
S551
TUNER/BAND
S552
FUNCTION
EFFECT ON/OFF
S535
P FILE
S534
MENU 3
S533
MENU 2
S532
MENU 1
S531
SURROUND
S530
DISPLAY/DEMO
S517
TIMER
S509
POWER
CLIP C
CLIP B
CLIP A
MUSIC CLIP
S520
CLIP ERASE
S519
CLIP PLAY
S521
S522
S523
S553
GROOVE
D557
SLEEP
D555
SELECT
D553
SET
D551
CLOCK SET
D549
TIMER
D547
MONO
D545
STEREO
D543
TUNER MEMORY
D541
TUNING MODE
D539
TUNER
D537
EDIT
D535
REPEAT
D533
PLAY MODE
D531
1/ALL DISCS
D529
CD
S514
(3)
S513
(2)
S512
(1)
S515
(4)
MULTI FUNCTION CONTROL
DECK B
DECK A
S538
S540
S539
D526
PAUSE
D525
REC
S545
HIGH SPEED DUBBING
S554
DIRECTION
S555
DOLBY NR
S544
CD SYNCHRO
S541
S542
S556
S558
S557
D523
D524
D527
D528
S536
S537
S559
S560
1-659-326-
11
(11)



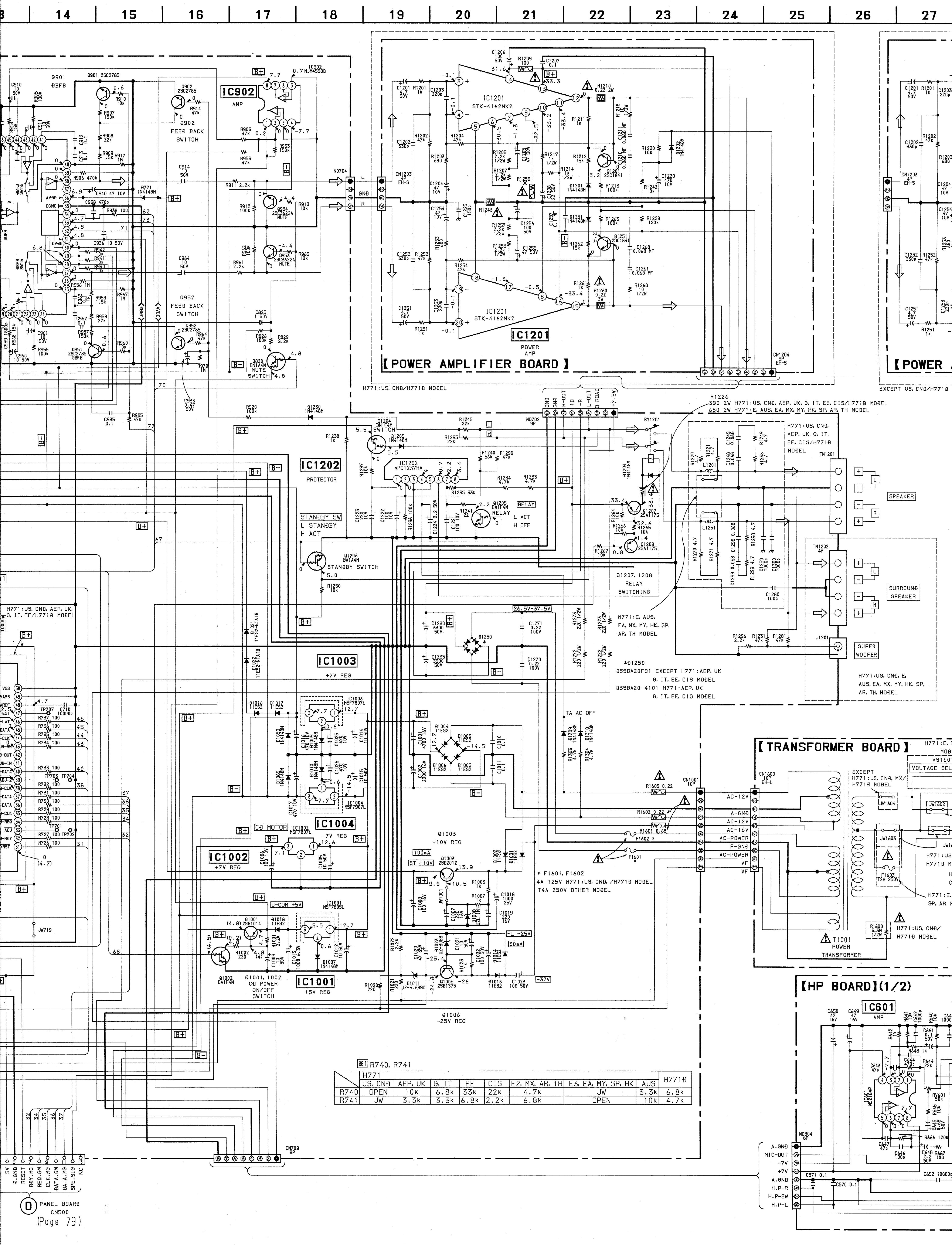
D509
R589
R545
R546
S528
ENTER/NEXT
D513
S527
S529
D511
FREQUENCY +
FREQUENCY −
D515
S562
MULTI JOG STATION
C527
C526
1-659-325-
11
(11)

6-16. SCHEMATIC DIAGRAM — MAIN SECTION —
• See page 21 for IC Pin Function. (IC701)


【MAIN BOARD】(1/2)
IC802
FUNCTION SWITCH
MC14052BCP
Q821, 871
GAIN CONTROL SWITCH
2SC2785
H771:US, CND MODEL
100CD/VIDEO
OTHER MODEL
VIDEO/MD
IN
AUDIO
OUT
J801
IC901
EQ/VOLUME
M62427FP
5BAND GEQ
IC701
TMP87CP64YF-6417
MASTER CONTROL
32.768kHz
4Vp-p
2.8Vp-p
10MHz
X701 10MHz
X702 32kHz
Q701 2SC2785 RESET SWITCH
IC702 PST600C
RESET
R740 ✱1
R741 ✱1
H771:US, CND, AEP, U, G, IT, EE/H7710 MOD
CN703
13P:H771:US, CND, E2, AUS, MX, AR, TH, H7710 MODEL
15P:H771:AEP, UK, E3, G, IT, EE CIS, EA, MY, HK, SP MODEL
TUNER UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK
FM/AM TUNER (US, CND, E, AUS, EA, MX, MY, HK, SP, AR)
A
TCB BOARD (AEP, UK, G, IT, EE, CIS, TH) CN1
AEP, UK, G, IT, EE MODEL: (Page 38)
CIS MODEL: (Page 41)
TH MODEL: (Page 49)
H771:CIS MODEL
B
DECK SECTION (Page 70)
TC CONTROL BUS LINE
TC-BUS
C
BD BOARD CNU102 (Page 55)
CN201 19P
CN203 8P
CN202 9P
E
CONNECTOR BOARD CN701 (Page 73)
F
MOTOR (SLIDE) BOARD CN801 (Page 73)
CN702 13P
D
PANEL BO CN500 (Page 7
COM-CLK
COM-DATA
COM-DIN
ST-CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
A+7V (UNSW)
A-7V (UNSW)
REC-L
REC-R
DGND
-7.5V
AGND
+7.5V
+5V (UNSWITCHED)
-7.5V (M)
+5V (M)
PB-L
PB-R
FOCUS-SW
SCOR
SQ-DATA
SQ-CLK
SENS
DF-LAT
CD-DATA
X-LAT
CD-CLK
X-RST
D+5V (SW)
D-OUT
D-GND
A+5V (SW)
R-CH
A-GND
L-CH
M-GND
+7V (UNSW)
DISC.SENS
D.GND
TRAY.SENS
5V
M.GND
TBL.L
TBL.R
7V
M.GND
LD.OUT
LD.IN
ENC3
D.GND
ENC2
ENC1
OPEN
REC-OUT (L)
REC-OUT (R)
ST A.GND
TC M-7.5V
TC M+5V
M.GND
+7V
A.GND
-7V
TC D+5V
ST +10V
CD 5V
CD +7V

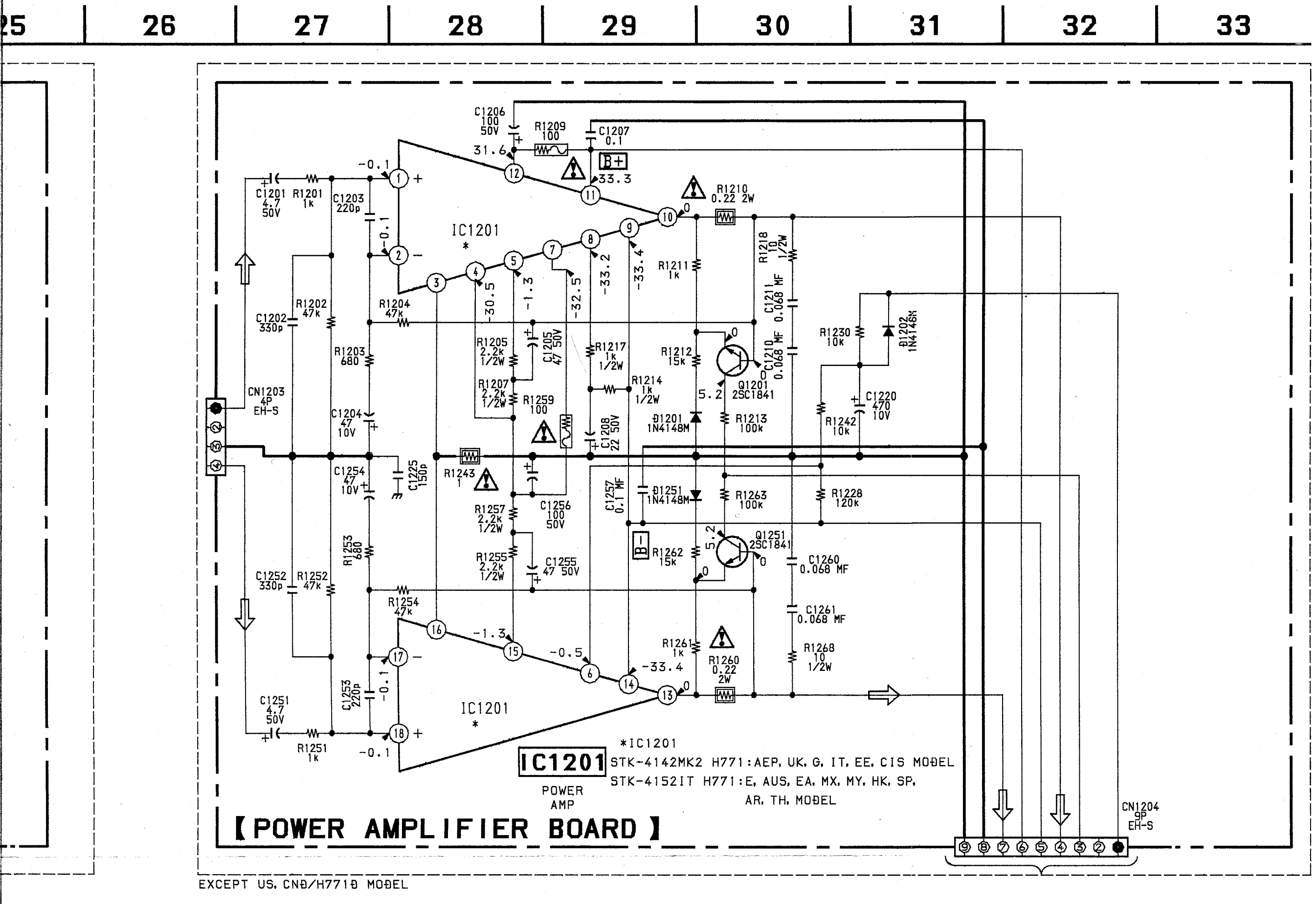
FUNCTION μ-COM LOGIC

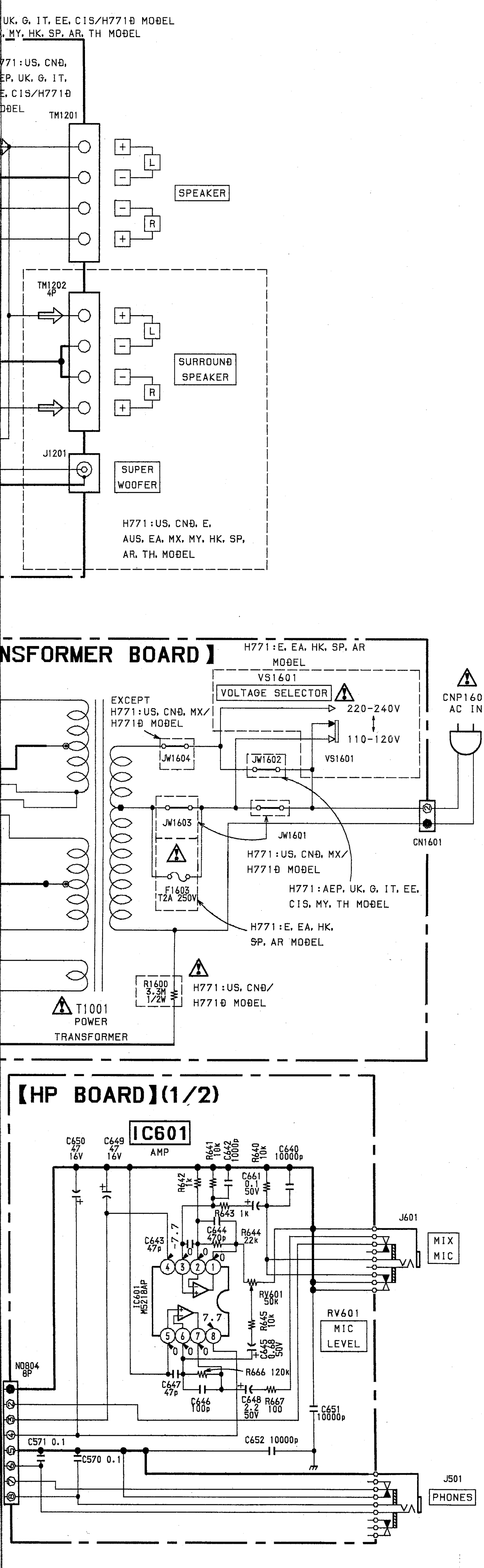
	V	CD	TC	ST	PS
	0	1	2	3	4
A	L	H	L	H	-
B	L	L	H	H	-
C	L	L	L	L	H


14
15
16
17
18
19
20
21
22
23
24
25
26
27
IC902
AMP
Q902
FEED BACK
SWITCH
Q952
FEED BACK
SWITCH
Q820
BN1A4M
MUTE
SWITCH
IC1201
STK-4162MK2
IC1201
POWER
AMP
【POWER AMPLIFIER BOARD】
H771:US, CND/H771D MODEL
EXCEPT US, CND/H771D
【POWER A
IC1202
μPC1237HA
PROTECTOR
STANDBY SW
L STANDBY
H ACT
Q1206
BA1A4M
STANDBY SWITCH
RELAY
L ACT
H OFF
Q1207, 1208
RELAY
SWITCHING
R1226
390 2W H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D MODEL
680 2W H771:E, AUS, EA, MX, MY, HK, SP, AR, TH MODEL
H771:US, CND,
AEP, UK, G, IT,
EE, CIS/H771D
MODEL
H771:E, AUS,
EA, MX, MY, HK, SP,
AR, TH MODEL
SPEAKER
SURROUND
SPEAKER
SUPER
WOOFER
H771:US, CND, E,
AUS, EA, MX, MY, HK, SP,
AR, TH, MODEL
*D1250
D5SBA20F01 EXCEPT H771:AEP, UK
G, IT, EE, CIS MODEL
D3SBA20-4101 H771:AEP, UK
G, IT, EE, CIS MODEL
26.5V-37.5V
IC1003
+7V REG
IC1004
-7V REG
CD MOTOR
IC1002
+7V REG
Q1003
+10V REG
100mA
ST +10V
U-COM +5V
IC1001
+5V REG
Q1001, 1002
CD POWER
ON/OFF
SWITCH
FL -25V
30mA
-32V
Q1006
-25V REG
TA AC OFF
* F1601, F1602
4A 125V H771:US, CND, /H771D MODEL
T4A 250V OTHER MODEL
【TRANSFORMER BOARD】
EXCEPT
H771:US, CND, MX/
H771D MODEL
VOLTAGE SEL
H771:US, CND/
H771D MODEL
T1001
POWER
TRANSFORMER
AC-12V
A-GND
AC-12V
AC-16V
AC-POWER
P-GND
AC-POWER
VF
VF
【HP BOARD】(1/2)
IC601
AMP
A.GND
MIC-OUT
-7V
+7V
A.GND
H.P-R
H.P-SW
H.P-L
H771:US, CND, AEP, UK,
G, IT, EE/H771D MODEL
D
PANEL BOARD
CN500
(Page 79)
CN709
8P
5V
D.GND
RESET
RDY.MG
REQ.GM
CLK.GM
DATA.GM
DATA.MG
SPE.SIG
NC

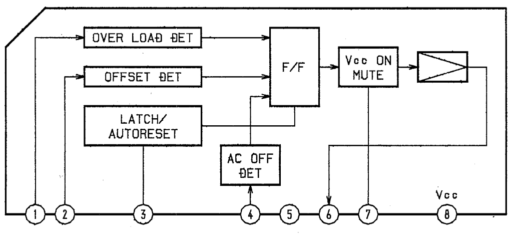
※1 R740, R741

	H771								H771D
	US, CND	AEP, UK	G, IT	EE	CIS	E2, MX, AR, TH	E3, EA, MY, SP, HK	AUS	
R740	OPEN	10k	6.8k	33k	22k	4.7k	JW	3.3k	6.8k
R741	JW	3.3k	3.3k	6.8k	2.2k	6.8k	OPEN	10k	4.7k


25
26
27
28
29
30
31
32
33
IC1201
C1206 100 50V
R1209 100
C1207 0.1
B+
R1210 0.22 2W
R1211 1k
R1218 10 1/2W
C1211 0.068 MF
C1210 0.068 MF
R1230 10k
D1202 1N4148M
Q1201 2SC1841
D1201 1N4148M
R1213 100k
R1212 15k
R1214 1k 1/2W
R1217 1k 1/2W
R1205 2.2k 1/2W
R1207 2.2k 1/2W
R1259 100
C1205 47 50V
C1208 22 50V
C1220 470 10V
R1242 10k
C1201 4.7 50V
R1201 1k
C1203 220p
C1202 330p
R1202 47k
R1203 680
R1204 47k
C1204 47 10V
CN1203 4P EH-S
C1254 47 10V
C1225 150p
R1243
R1257 2.2k 1/2W
C1256 100 50V
R1255 2.2k 1/2W
C1255 47 50V
C1257 0.1
D1251 1N4148M
R1263 100k
R1228 120k
B-
R1262 15k
Q1251 2SC1841
C1260 0.068 MF
C1261 0.068 MF
R1253 680
C1252 330p
R1252 47k
R1254 47k
R1261 1k
R1260 0.22 2W
R1268 10 1/2W
C1251 4.7 50V
R1251 1k
C1253 220p
*IC1201
STK-4142MK2 H771:AEP, UK, G, IT, EE, CIS MODEL
STK-4152IT H771:E, AUS, EA, MX, MY, HK, SP, AR, TH, MODEL
IC1201
POWER AMP
CN1204 9P EH-S
【POWER AMPLIFIER BOARD】
EXCEPT US, CND/H771D MODEL


UK, G, IT, EE, CIS/H771D MODEL
MY, HK, SP, AR, TH MODEL
H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D MODEL
TM1201
SPEAKER
L
R
TM1202 4P
SURROUND SPEAKER
J1201
SUPER WOOFER
H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH, MODEL
NSFORMER BOARD】
H771:E, EA, HK, SP, AR MODEL
VS1601
VOLTAGE SELECTOR
220-240V
110-120V
EXCEPT H771:US, CND, MX/H771D MODEL
JW1604
JW1602
VS1601
CNP1601 AC IN
CN1601
JW1603
JW1601
H771:US, CND, MX/H771D MODEL
F1603 T2A 250V
H771:AEP, UK, G, IT, EE, CIS, MY, TH MODEL
H771:E, EA, HK, SP, AR MODEL
R1600 3.3M 1/2W
H771:US, CND/H771D MODEL
T1001 POWER TRANSFORMER
【HP BOARD】(1/2)
IC601 AMP
C650 47 16V
C649 47 16V
R641 10k
R642 1k
C642 100p
R640 10k
C640 10000p
C661 0.1 50V
R643 1k
C644 470p
R644 22k
C643 47p
IC601 M5218AP
RV601 50K
RV601 MIC LEVEL
C645 0.68 50V
R645 10k
R666 120k
C647 47p
C646 100p
C648 2.2 50V
R667 100
C651 10000p
C652 10000p
J601
MIX MIC
CN804 8P
C571 0.1
C570 0.1
J501
PHONES

IC1202 μPC1237HA


OVER LOAD DET
OFFSET DET
LATCH/ AUTORESET
F/F
Vcc ON MUTE
AC OFF DET
Vcc
1
2
3
4
5
6
7
8

NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▣ :nonflammable resistor.
- ▭ :fusible resistor.
- ▭ :panel designation.

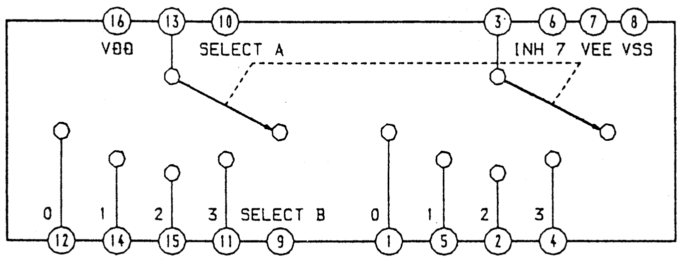
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiės par une marque ⚠ sont critiques pour la sėcuritė. Ne les remplacer que par une piėce portant le numėro spėcifiė.

- B+ :B+ Line.
- B- :B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:FM
  (   ) :CD PLAY
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  CND:Canadian model.
  G :German model.
  IT :Italian model.
  EE :East European model.
  AUS:Australian model.
  EA :Saudi Arabia model.
  MX :Mexican model.
  MY :Malaysia model.
  HK :Hong Kong model.
  SP :Singapore model.
  AR :Argentine model.
  TH :Thailand model.
  E2 :without SW tuner model.
  E3 :with SW tuner model.
- Signal path.
  ⇨ :FM
  ⇨» :VIDEO
  ≻ :PB
  ▷» :REC
  ⇨ :CD

- **IC Block Diagrams**

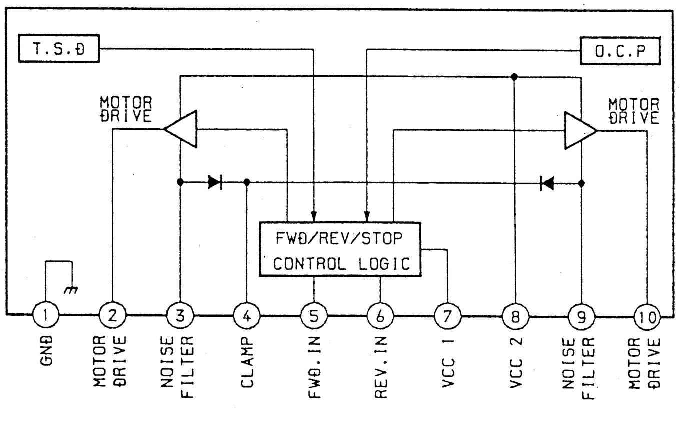
— MAIN SECTION —

IC802 MC14052BCP

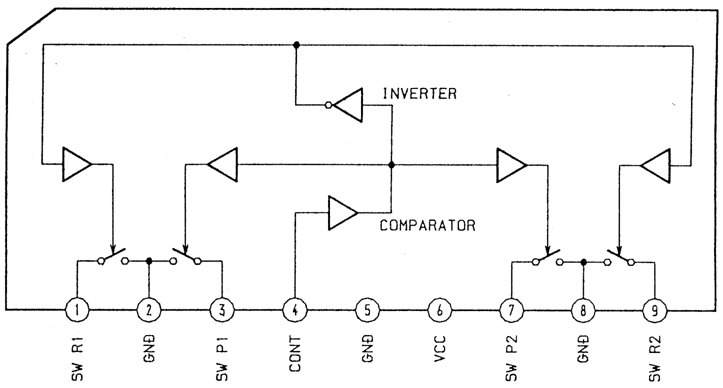

16
13
10
3
6
7
8
VDD
SELECT A
INH 7 VEE VSS
0
1
2
3
SELECT B
0
1
2
3
12
14
15
11
9
1
5
2
4

— DECK SECTION —

IC402 LB1641

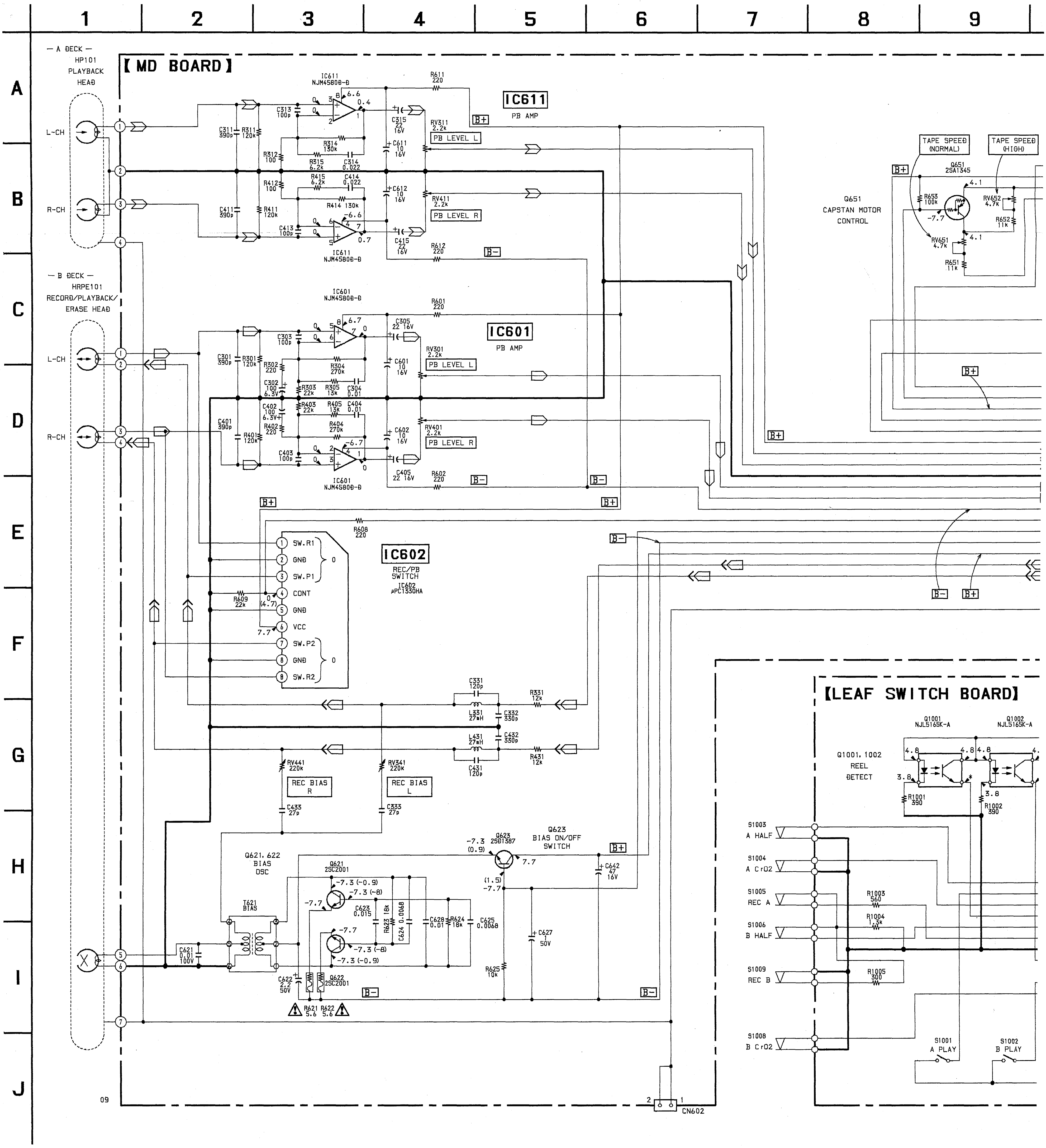

T.S.D
O.C.P
MOTOR DRIVE
MOTOR DRIVE
FWD/REV/STOP CONTROL LOGIC
1
2
3
4
5
6
7
8
9
10
GND
MOTOR DRIVE
NOISE FILTER
CLAMP
FWD.IN
REV.IN
VCC 1
VCC 2
NOISE FILTER
MOTOR DRIVE

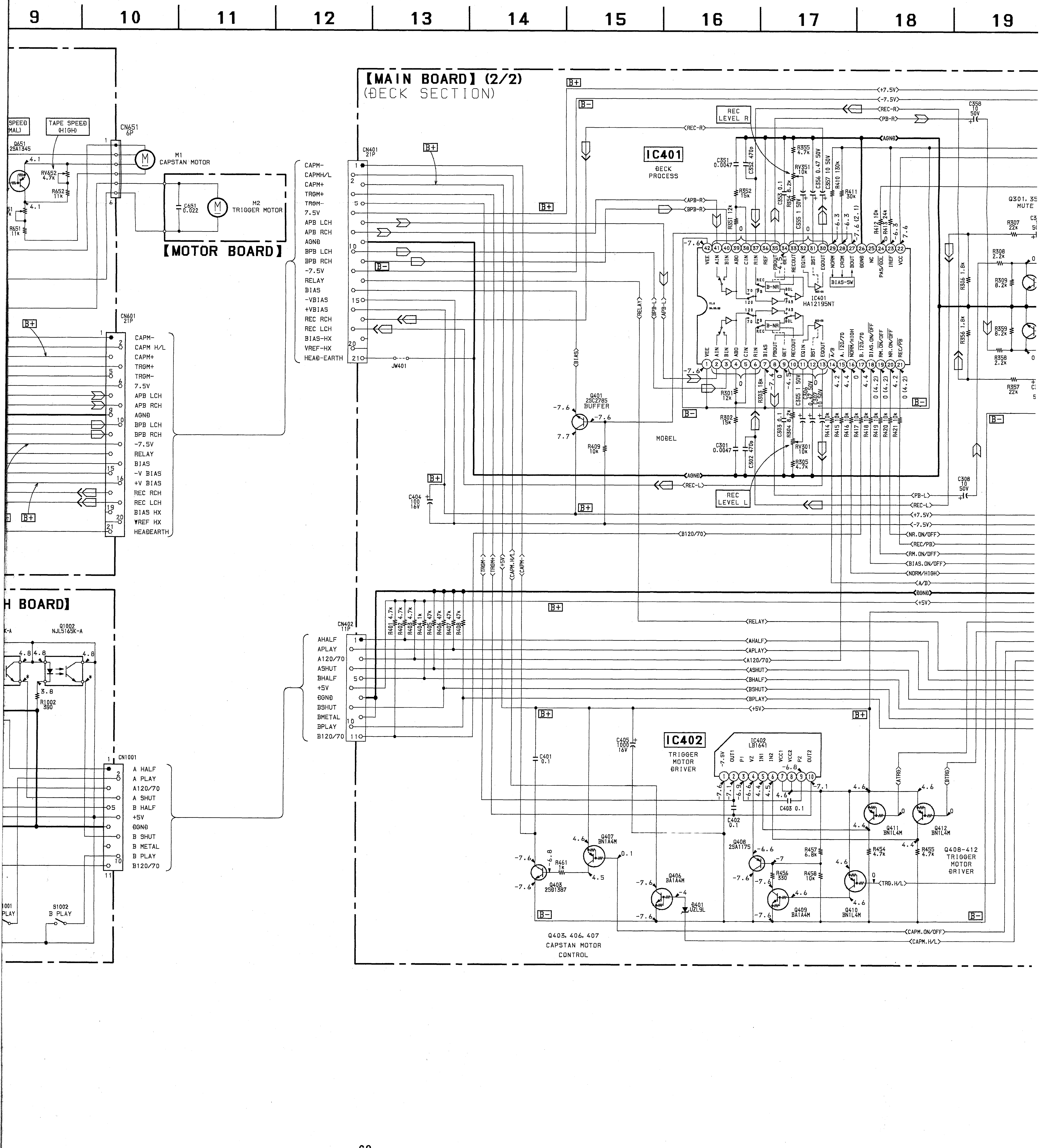
IC602 μPC1330HA

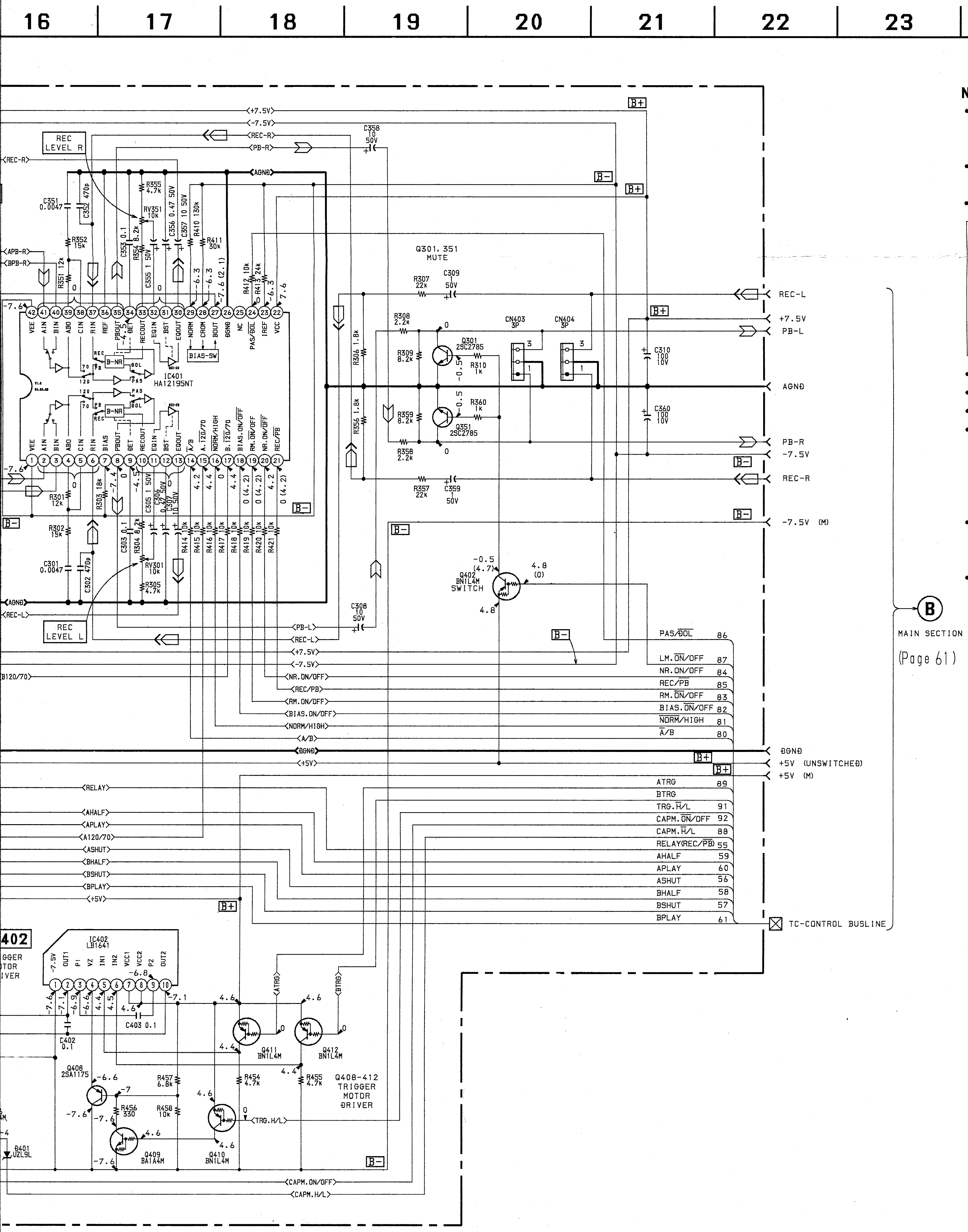

INVERTER
COMPARATOR
1
2
3
4
5
6
7
8
9
SW R1
GND
SW P1
CONT
GND
VCC
SW P2
GND
SW R2

6-17. SCHEMATIC DIAGRAM — DECK SECTION —

- See page 56 for Printed Wiring Board. (MD BOARD)
- See page 58 for Printed Wiring Board. (MAIN BOARD)
- See page 65 for IC Block Diagrams.


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
— A DECK —
HP101
PLAYBACK
HEAD
L-CH
R-CH
— B DECK —
HRPE101
RECORD/PLAYBACK/
ERASE HEAD
[MD BOARD]
IC611
NJM4580D-D
R611
220
IC611
PB AMP
B+
B−
C313
100p
C311
390p
R311
120k
R312
100
R314
130k
R315
6.2k
C314
0.022
R415
6.2k
C414
0.022
R412
100
R414 130k
C411
390p
R411
120k
C413
100p
C315
22
16V
C611
10
16V
C612
10
16V
C415
22
16V
RV311
2.2k
PB LEVEL L
RV411
2.2k
PB LEVEL R
R612
220
IC601
NJM4580D-D
R601
220
C305
22 16V
IC601
PB AMP
C303
100p
C301
390p
R301
120k
R302
220
R304
270k
C302
100
6.3V
R303
22k
R305
13k
C304
0.01
C402
100
6.3V
R403
22k
R405
13k
C404
0.01
R402
220
R404
270k
C401
390p
R401
120k
C403
100p
C601
10
16V
C602
10
16V
RV301
2.2k
PB LEVEL L
RV401
2.2k
PB LEVEL R
C405
22 16V
R602
220
R608
220
IC602
REC/PB
SWITCH
IC602
μPC1330HA
SW.R1
GND
SW.P1
CONT
GND
VCC
SW.P2
GND
SW.R2
R609
22k
C331
120p
L331
27mH
C332
330p
R331
12k
L431
27mH
C432
330p
R431
12k
C431
120p
RV441
220k
REC BIAS
R
RV341
220k
REC BIAS
L
C433
27p
C333
27p
Q621, 622
BIAS
OSC
Q621
2SC2001
Q622
2SC2001
T621
BIAS
C621
0.01
100V
C623
0.015
R623 18k
C624 0.0068
C628
0.01
R624
18k
C625
0.0068
C622
2.2
50V
R621
5.6
R622
5.6
Q623
2SD1387
Q623
BIAS ON/OFF
SWITCH
C642
47
16V
C627
1
50V
R625
10k
CN602
09
TAPE SPEED
(NORMAL)
TAPE SPEED
(HIGH)
Q651
2SA1345
Q651
CAPSTAN MOTOR
CONTROL
R653
100k
RV652
4.7k
R652
11k
RV651
4.7k
R651
11k
[LEAF SWITCH BOARD]
Q1001
NJL5165K-A
Q1002
NJL5165K-A
Q1001, 1002
REEL
DETECT
R1001
390
R1002
390
S1003
A HALF
S1004
A CrO2
S1005
REC A
S1006
B HALF
S1009
REC B
S1008
B CrO2
R1003
560
R1004
1.5k
R1005
300
S1001
A PLAY
S1002
B PLAY


9
10
11
12
13
14
15
16
17
18
19
【MAIN BOARD】(2/2)
(DECK SECTION)
【MOTOR BOARD】
H BOARD】
M1 CAPSTAN MOTOR
M2 TRIGGER MOTOR
TAPE SPEED (HIGH)
CN651 6P
CN601 21P
CN401 21P
CN402 11P
CN1001
IC401 DECK PROCESS
IC401 HA12195NT
IC402 TRIGGER MOTOR DRIVER
IC402 LB1641
Q401 2SC2785 BUFFER
Q403, 406, 407 CAPSTAN MOTOR CONTROL
Q408-412 TRIGGER MOTOR DRIVER
Q301, 35 MUTE
REC LEVEL R
REC LEVEL L
MODEL
CAPM-
CAPMH/L
CAPM+
TRGM+
TRGM-
7.5V
APB LCH
APB RCH
AGND
BPB LCH
BPB RCH
-7.5V
RELAY
BIAS
-VBIAS
+VBIAS
REC RCH
REC LCH
BIAS-HX
VREF-HX
HEAD-EARTH
AHALF
APLAY
A120/70
ASHUT
BHALF
+5V
DGND
BSHUT
BMETAL
BPLAY
B120/70
S1002 B PLAY
Q1002 NJL5165K-A
R1002 390
JW401
(CAPM.ON/OFF)
(CAPM.H/L)
(TRG.H/L)
(NR.ON/OFF)
(REC/PB)
(RM.ON/OFF)
(BIAS.ON/OFF)
(NORM/HIGH)
(A/B)
(B120/70)


16
17
18
19
20
21
22
23
REC LEVEL R
REC LEVEL L
IC401 HA12195NT
BIAS-SW
Q301, 351 MUTE
Q301 2SC2785
Q351 2SC2785
CN403 3P
CN404 3P
Q402 BN1L4M SWITCH
REC-L
+7.5V
PB-L
AGND
PB-R
-7.5V
REC-R
-7.5V (M)
PAS/BOL 86
LM.ON/OFF 87
NR.ON/OFF 84
REC/PB 85
RM.ON/OFF 83
BIAS.ON/OFF 82
NORM/HIGH 81
A/B 80
BGND
+5V (UNSWITCHED)
+5V (M)
ATRG 89
BTRG
TRG.H/L 91
CAPM.ON/OFF 92
CAPM.H/L 88
RELAY(REC/PB) 55
AHALF 59
APLAY 60
ASHUT 56
BHALF 58
BSHUT 57
BPLAY 61
TC-CONTROL BUSLINE
402
IC402 LB1641
Q408 2SA1175
Q409 BA1A4M
Q410 BN1L4M
Q411 BN1L4M
Q412 BN1L4M
Q408-412 TRIGGER MOTOR DRIVER
D401 UZL9L
CAPM.ON/OFF
CAPM.H/L
B
MAIN SECTION
(Page 61)

24 25 26

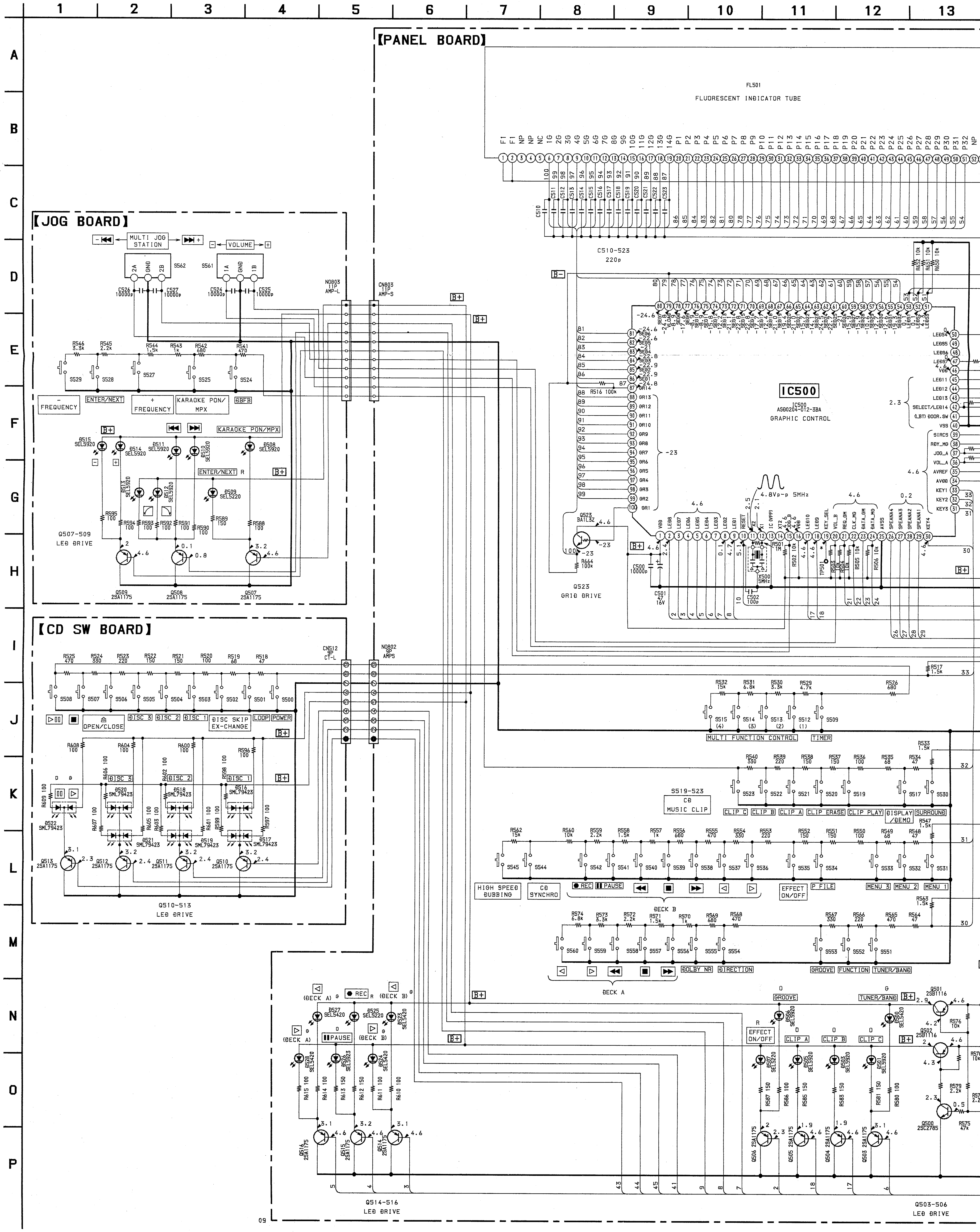
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwis specified.
- ─▭─ :fusible resistor.

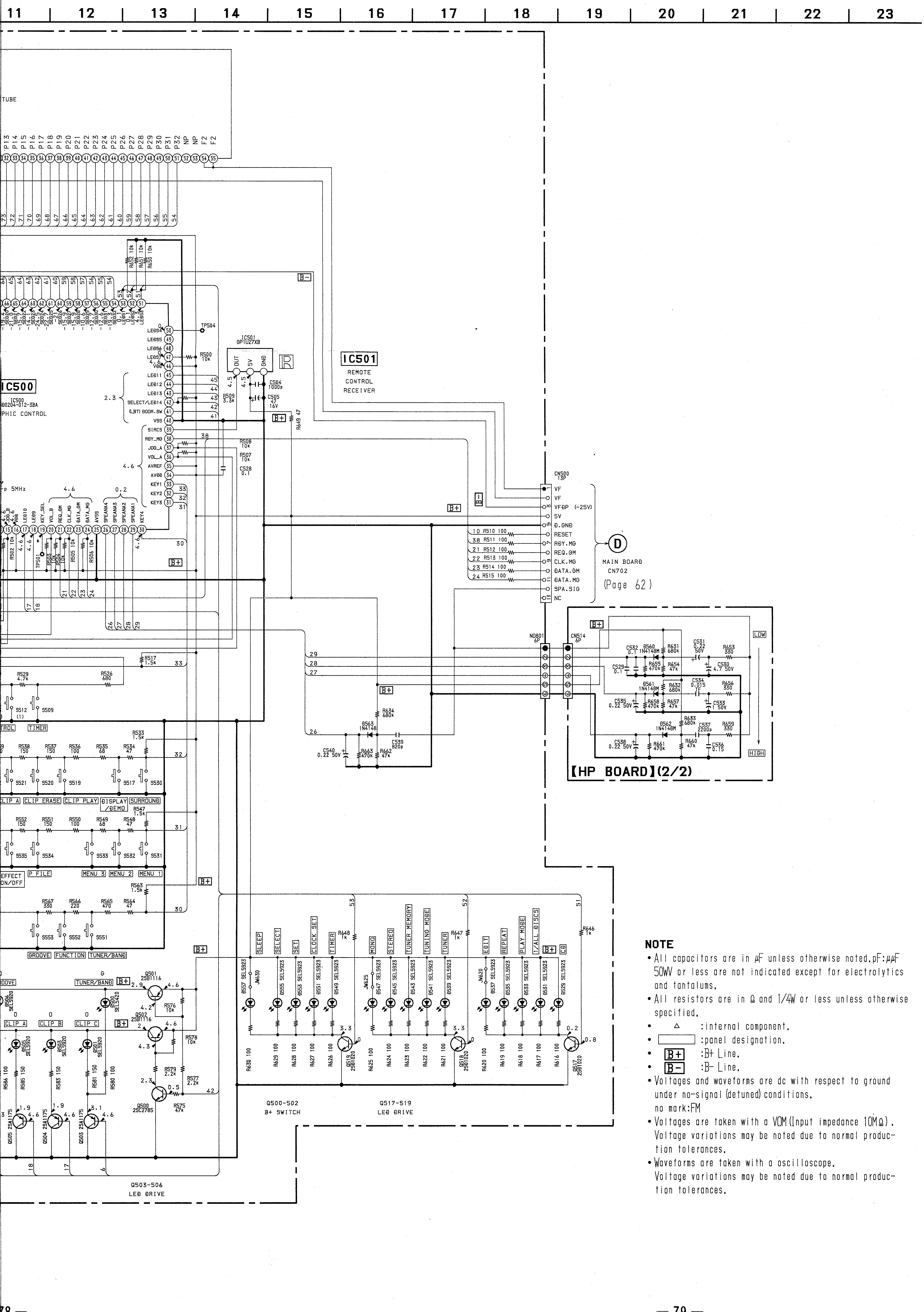
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiès par une marque ⚠ sont critiques pour la sècuritè. Ne les remplacer que par une pièce portant le numèro spècifiè.

- B+ :B+ Line.
- B- :B- Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: PLAY
  ( ): REC
  * :can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⪢ :PB (DECK A)
  ▷ :PB (DECK B)
  ▷» :REC (DECK B)

6-21. SCHEMATIC DIAGRAM — PANEL SECTION —
• See page 20 for IC Pin Function. (IC500)



1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I J K L M N O P
【PANEL BOARD】
FL501
FLUORESCENT INDICATOR TUBE
【JOG BOARD】
MULTI JOG STATION
VOLUME
S562
S561
C510-523
220p
IC500
AS00204-012-3BA
GRAPHIC CONTROL
4.8Vp-p 5MHz
X500 5MHz
Q523
GRID DRIVE
Q507-509
LED DRIVE
FREQUENCY
ENTER/NEXT
KARAOKE PON/MPX
DBFB
【CD SW BOARD】
CN512
NO803
CN803
NO802
OPEN/CLOSE
DISC 3
DISC 2
DISC 1
DISC SKIP EX-CHANGE
LOOP
POWER
Q510-513
LED DRIVE
MULTI FUNCTION CONTROL
TIMER
S519-523
CD MUSIC CLIP
CLIP C
CLIP B
CLIP A
CLIP ERASE
CLIP PLAY
DISPLAY /DEMO
SURROUND
HIGH SPEED DUBBING
CD SYNCHRO
REC
PAUSE
EFFECT ON/OFF
P FILE
MENU 3
MENU 2
MENU 1
DECK B
DECK A
DOLBY NR
DIRECTION
GROOVE
FUNCTION
TUNER/BAND
Q514-516
LED DRIVE
Q503-506
LED DRIVE
Q501 2SB1116
Q502 2SB1116
Q500 2SC2785

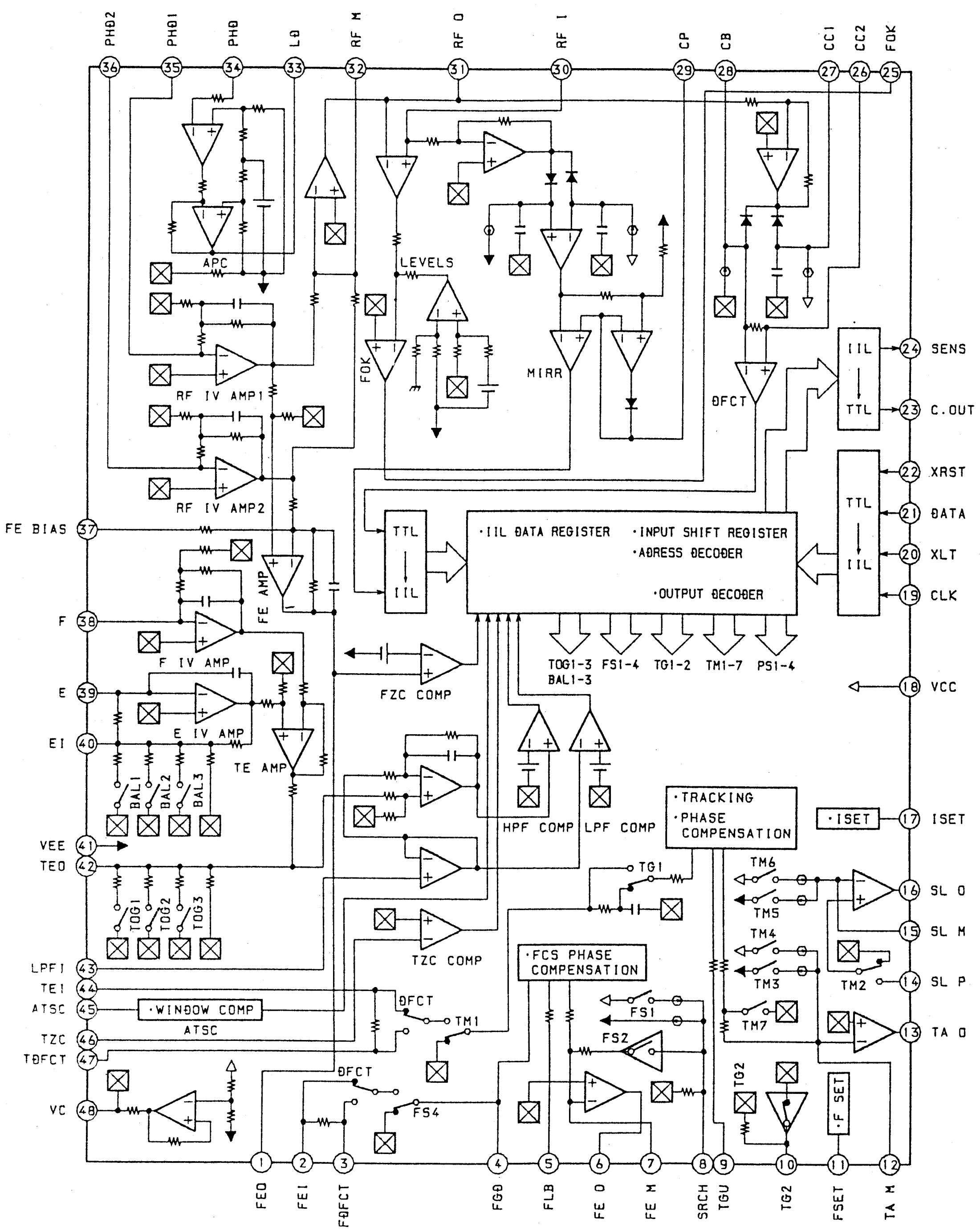

11
12
13
14
15
16
17
18
19
20
21
22
23
TUBE
IC500
IC500
PHIC CONTROL
IC501
GP1U27XB
IC501
REMOTE
CONTROL
RECEIVER
TP504
CN500
13P
VF
VF
VFΘP (-25V)
5V
Θ.GNΘ
RESET
RΘY.MG
REQ.GM
CLK.MG
ΘATA.GM
ΘATA.MG
SPA.SIG
NC
D
MAIN BOARΘ
CN702
(Page 62)
NO801
6P
CN514
6P
LOW
HIGH
【HP BOARD】(2/2)
B+
B-
TIMER
CLIP A
CLIP ERASE
CLIP PLAY
ΘISPLAY /ΘEMO
SURROUND
EFFECT ON/OFF
P FILE
MENU 3
MENU 2
MENU 1
GROOVE
FUNCTION
TUNER/BAND
CLIP A
CLIP B
CLIP C
SLEEP
SELECT
SET
CLOCK SET
TIMER
MONO
STEREO
TUNER MEMORY
TUNING MODE
TUNER
EDIT
REPEAT
PLAY MODE
1/ALL ΘISCS
CD
Q500-502
B+ SWITCH
Q517-519
LEΘ ΘRIVE
Q503-506
LEΘ ΘRIVE
Q501 2SB1116
Q502 2SB1116
Q500 2SC2785
Q517 2SB1020
Q518 2SB1020
Q519 2SB1020

NOTE

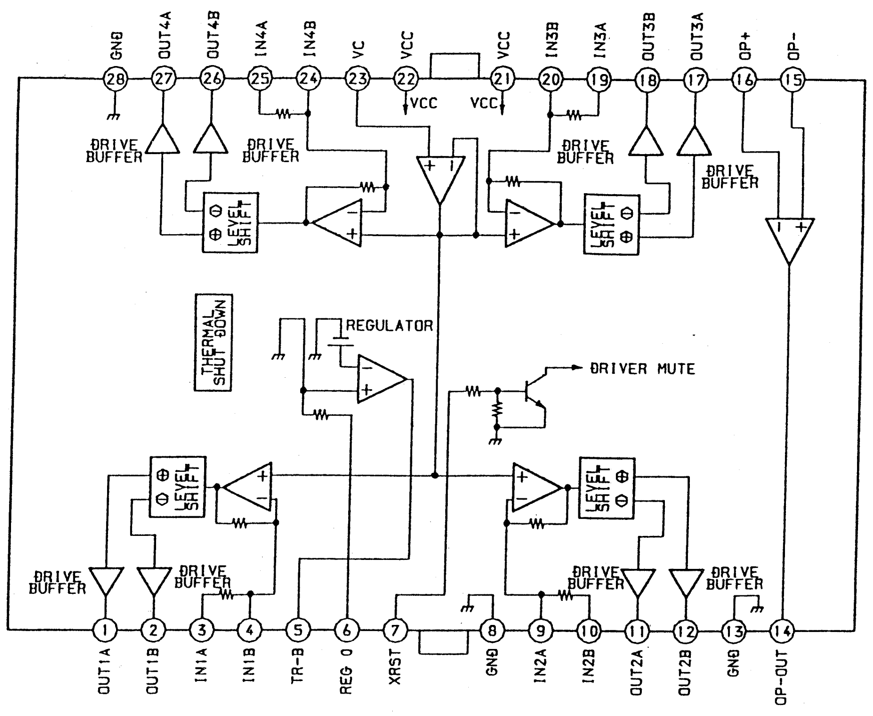
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- B- :B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

6-22. IC BLOCK DIAGRAMS — CD SECTION —

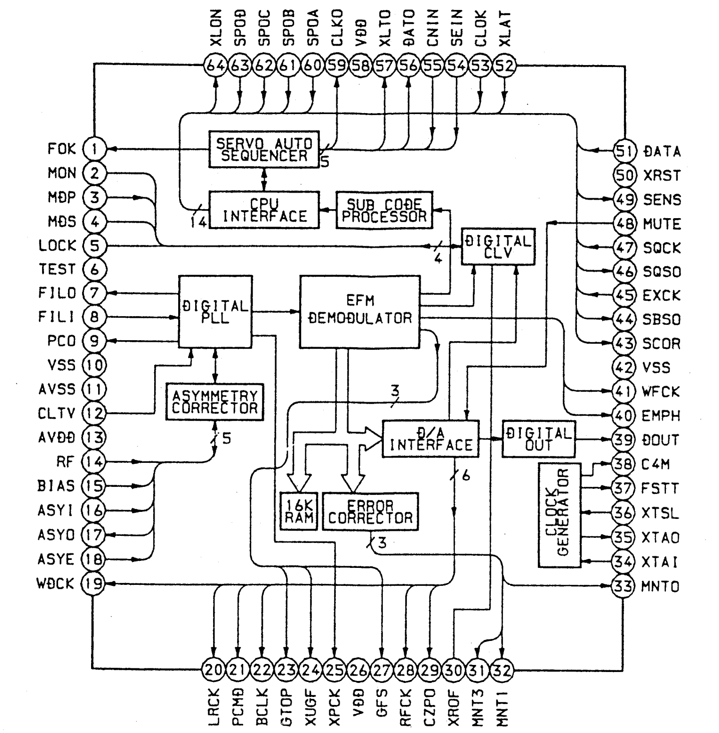
IC101 CXA1782BQ


PHD2 36
PHD1 35
PHD 34
LD 33
RF M 32
RF O 31
RF I 30
CP 29
CB 28
CC1 27
CC2 26
FOK 25
SENS 24
C.OUT 23
XRST 22
DATA 21
XLT 20
CLK 19
VCC 18
ISET 17
SL O 16
SL M 15
SL P 14
TA O 13
FEO 1
FEI 2
FDFCT 3
FGD 4
FLB 5
FE O 6
FE M 7
SRCH 8
TGU 9
TG2 10
FSET 11
TA M 12
FE BIAS 37
F 38
E 39
EI 40
VEE 41
TEO 42
LPFI 43
TEI 44
ATSC 45
TZC 46
TDFCT 47
VC 48
APC
RF IV AMP1
RF IV AMP2
LEVELS
FOK
MIRR
DFCT
FE AMP
F IV AMP
E IV AMP
TE AMP
BAL1
BAL2
BAL3
TOG1
TOG2
TOG3
TTL
IIL
·IIL DATA REGISTER
·INPUT SHIFT REGISTER
·ADRESS DECODER
·OUTPUT DECODER
TOG1-3 FS1-4 TG1-2 TM1-7 PS1-4
BAL1-3
FZC COMP
HPF COMP
LPF COMP
·TRACKING
·PHASE COMPENSATION
·ISET
TG1
TM6
TM5
TM4
TM3
TM2
TM7
TM1
DFCT
·FCS PHASE COMPENSATION
FS1
FS2
FS4
TZC COMP
·WINDOW COMP
ATSC
TG2
·F SET

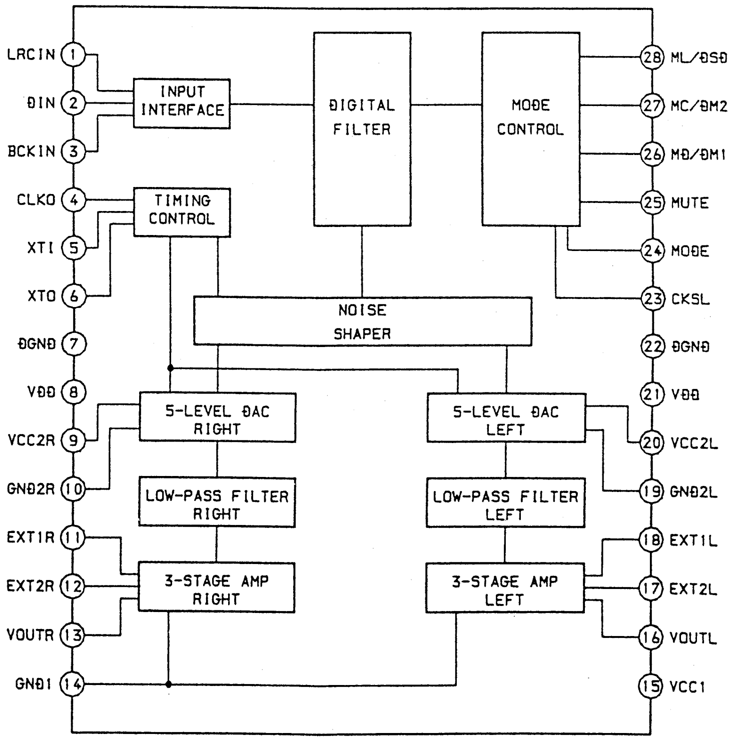
IC102 BA6397FP


GND 28
OUT4A 27
OUT4B 26
IN4A 25
IN4B 24
VC 23
VCC 22
VCC 21
IN3B 20
IN3A 19
OUT3B 18
OUT3A 17
OP+ 16
OP- 15
DRIVE BUFFER
LEVEL SHIFT
THERMAL SHUT DOWN
REGULATOR
DRIVER MUTE
OUT1A 1
OUT1B 2
IN1A 3
IN1B 4
TR-B 5
REG O 6
XRST 7
GND 8
IN2A 9
IN2B 10
OUT2A 11
OUT2B 12
GND 13
OP-OUT 14

IC103 CXD2507

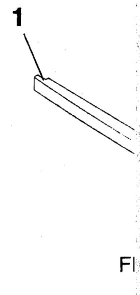

XLON 64
SPOD 63
SPOC 62
SPOB 61
SPOA 60
CLKO 59
VDD 58
XLTO 57
DATO 56
CNIN 55
SEIN 54
CLOK 53
XLAT 52
FOK 1
MON 2
MDP 3
MDS 4
LOCK 5
TEST 6
FILO 7
FILI 8
PCO 9
VSS 10
AVSS 11
CLTV 12
AVDD 13
RF 14
BIAS 15
ASYI 16
ASYO 17
ASYE 18
WDCK 19
SERVO AUTO SEQUENCER
CPU INTERFACE
SUB CODE PROCESSOR
DIGITAL CLV
DIGITAL PLL
EFM DEMODULATOR
ASYMMETRY CORRECTOR
D/A INTERFACE
DIGITAL OUT
16K RAM
ERROR CORRECTOR
CLOCK GENERATOR
DATA 51
XRST 50
SENS 49
MUTE 48
SQCK 47
SQSO 46
EXCK 45
SBSO 44
SCOR 43
VSS 42
WFCK 41
EMPH 40
DOUT 39
C4M 38
FSTT 37
XTSL 36
XTAO 35
XTAI 34
MNT0 33
LRCK 20
PCMD 21
BCLK 22
GTOP 23
XUGF 24
XPCK 25
VDD 26
GFS 27
RFCK 28
C2PO 29
XROF 30
MNT3 31
MNT1 32

IC104 PCM1710U


LRCIN 1
DIN 2
BCKIN 3
CLKO 4
XTI 5
XTO 6
DGND 7
VDD 8
VCC2R 9
GND2R 10
EXT1R 11
EXT2R 12
VOUTR 13
GND1 14
INPUT INTERFACE
DIGITAL FILTER
MODE CONTROL
TIMING CONTROL
NOISE SHAPER
5-LEVEL DAC RIGHT
5-LEVEL DAC LEFT
LOW-PASS FILTER RIGHT
LOW-PASS FILTER LEFT
3-STAGE AMP RIGHT
3-STAGE AMP LEFT
ML/DSD 28
MC/DM2 27
MD/DM1 26
MUTE 25
MODE 24
CKSL 23
DGND 22
VDD 21
VCC2L 20
GND2L 19
EXT1L 18
EXT2L 17
VOUTL 16
VCC1 15

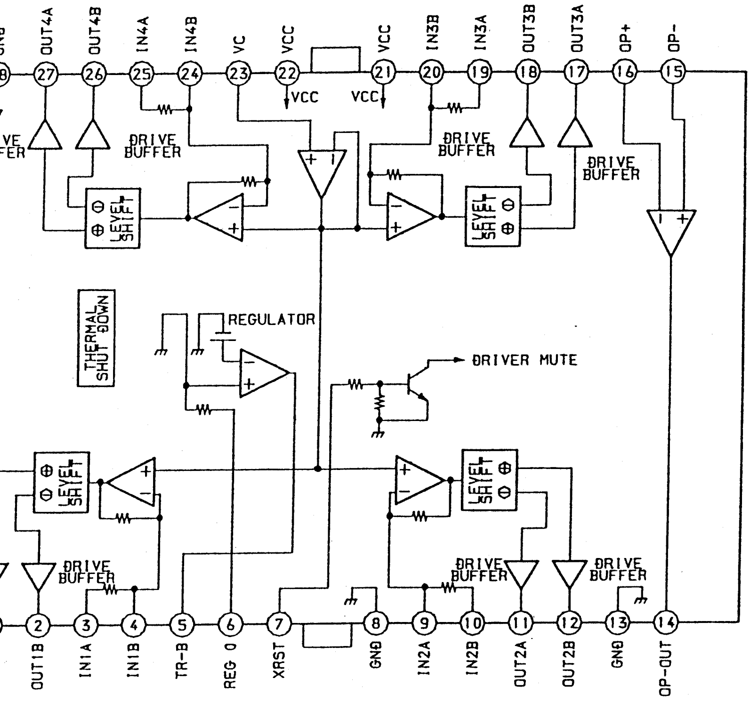
NOTE:
- Items marked
seldom requir
should be anti
- The mechanic
in the explode
- Hardware (#
packing mate
parts list.

7-1. CASE

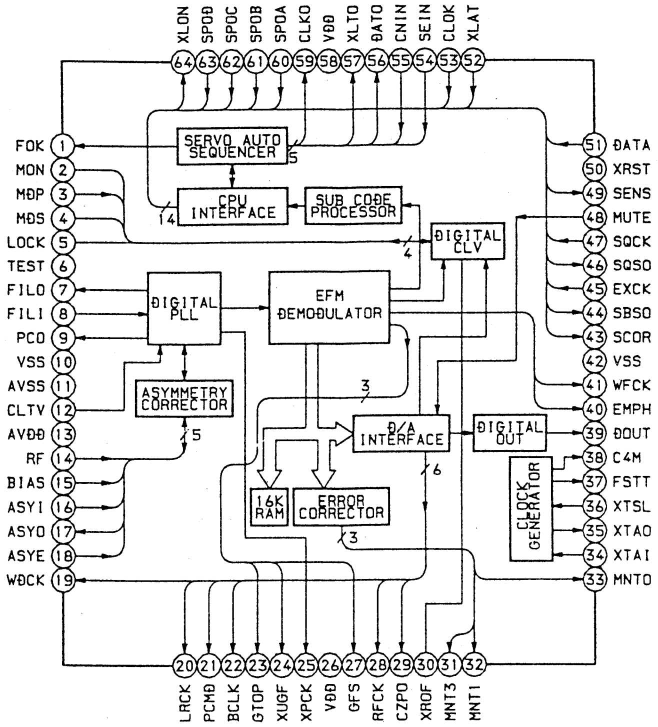


Ref. No.	Part
1	4-978-
∗ 1	4-978-
1	4-978-
∗ 2	4-978-
3	3-363-
4	1-769-
4	1-773-
∗ 5	1-233-
∗ 5	1-233-

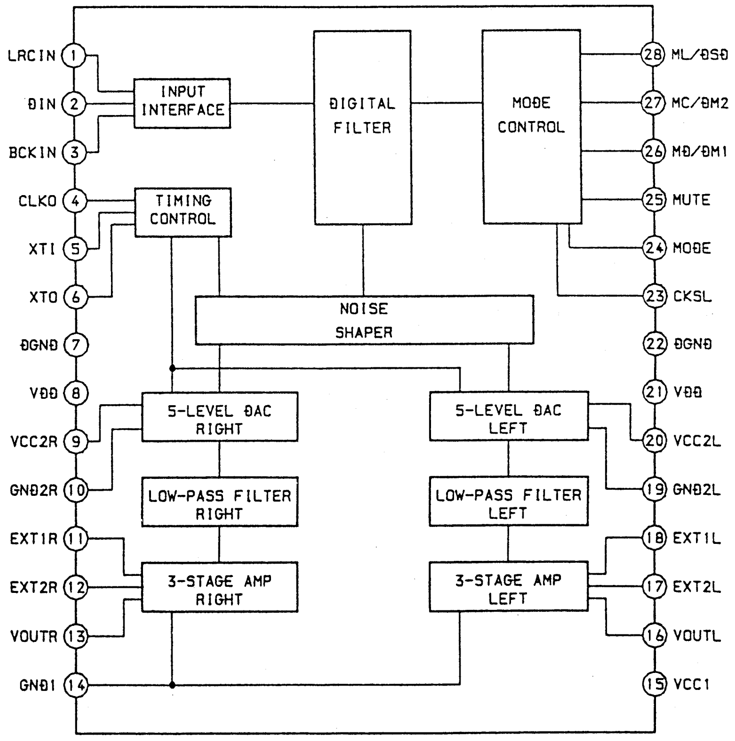
A6397FP


OUT4A
OUT4B
IN4A
IN4B
VC
VCC
VCC
IN3B
IN3A
OUT3B
OUT3A
OP+
OP-
VCC
VCC
DRIVE BUFFER
DRIVE BUFFER
DRIVE BUFFER
LEVEL SHIFT
LEVEL SHIFT
THERMAL SHUT DOWN
REGULATOR
DRIVER MUTE
LEVEL SHIFT
LEVEL SHIFT
DRIVE BUFFER
DRIVE BUFFER
DRIVE BUFFER
OUT1B
IN1A
IN1B
TR-B
REG O
XRST
GND
IN2A
IN2B
OUT2A
OUT2B
GND
OP-OUT

IC103 CXD2507


XLON
SPOD
SPOC
SPOB
SPOA
CLKO
VDD
XLTO
DATO
CNIN
SEIN
CLOK
XLAT
FOK
MON
MDP
MDS
LOCK
TEST
FILO
FILI
PCO
VSS
AVSS
CLTV
AVDD
RF
BIAS
ASYI
ASYO
ASYE
WDCK
SERVO AUTO SEQUENCER
CPU INTERFACE
SUB CODE PROCESSOR
DIGITAL CLV
DIGITAL PLL
EFM DEMODULATOR
ASYMMETRY CORRECTOR
D/A INTERFACE
DIGITAL OUT
16K RAM
ERROR CORRECTOR
CLOCK GENERATOR
DATA
XRST
SENS
MUTE
SQCK
SQSO
EXCK
SBSO
SCOR
VSS
WFCK
EMPH
DOUT
C4M
FSTT
XTSL
XTAO
XTAI
MNTO
LRCK
PCMD
BCLK
GTOP
XUGF
XPCK
VDD
GFS
RFCK
CZPO
XROF
MNT3
MNT1

IC104 PCM1710U


LRCIN
DIN
BCKIN
CLKO
XTI
XTO
DGND
VDD
VCC2R
GND2R
EXT1R
EXT2R
VOUTR
GND1
INPUT INTERFACE
TIMING CONTROL
DIGITAL FILTER
MODE CONTROL
NOISE SHAPER
5-LEVEL DAC RIGHT
5-LEVEL DAC LEFT
LOW-PASS FILTER RIGHT
LOW-PASS FILTER LEFT
3-STAGE AMP RIGHT
3-STAGE AMP LEFT
ML/DSD
MC/DM2
MD/DM1
MUTE
MODE
CKSL
DGND
VDD
VCC2L
GND2L
EXT1L
EXT2L
VOUTL
VCC1

SECTION 7

EXPLODED VIEWS

NOTE:
- Items marked " ＊ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

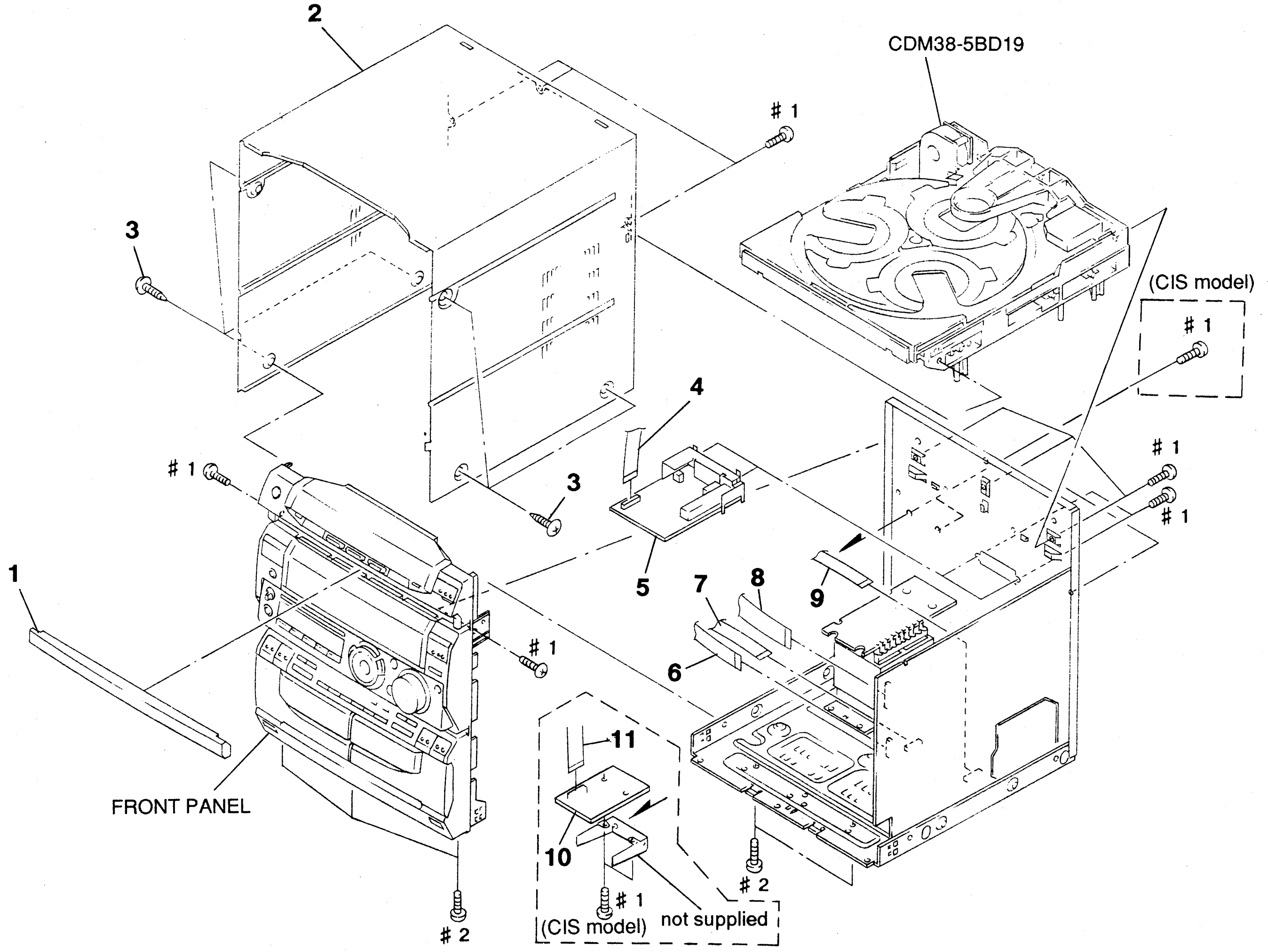
- Abbreviation

CND : Canadian model
G : German model
IT : Italian model
EE : East European model
EA : Saudi Arabia model
MX : Mexican model
HK : Hong Kong model
SP : Singapore model
MY : Malaysia model
AUS : Australian model
AR : Argentine model
TH : Thailand model
E2 : Without SW tuner model
E3 : With SW tuner model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

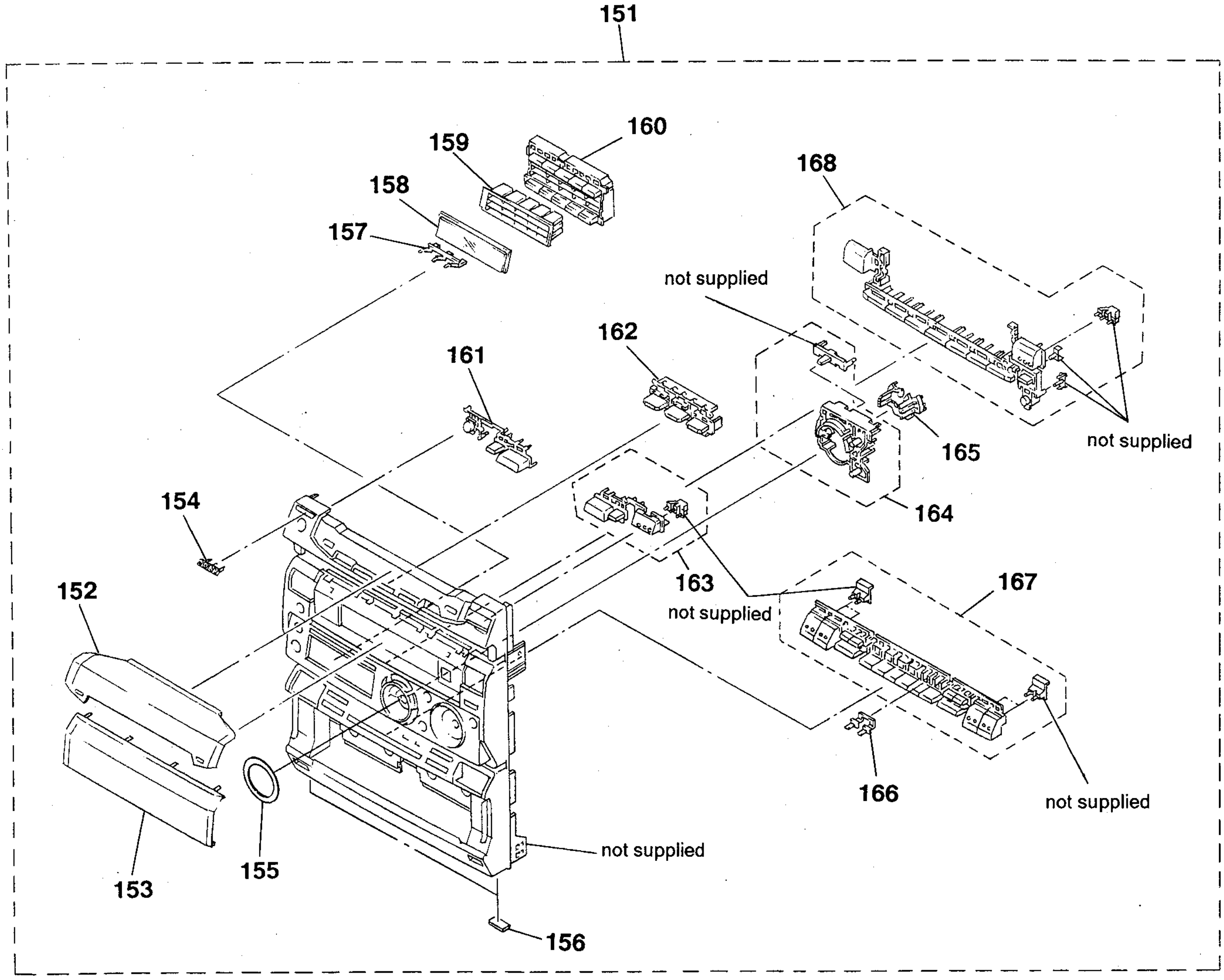
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CASE SECTION


2
CDM38-5BD19
# 1
3
(CIS model)
# 1
# 1
# 1
4
# 1
3
1
5
7
8
9
# 1
6
11
FRONT PANEL
10
# 2
# 1
# 2
(CIS model)
not supplied

Ref. No.	Part No.	Description	Remark
1	4-978-714-41	PANEL, LOADING	(H771:US, CND, AEP, UK, G, IT, EE, CIS)
＊ 1	4-978-714-51	PANEL, LOADING	(H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)
1	4-978-714-91	PANEL, LOADING (H771D)	
＊ 2	4-978-748-41	CASE	
3	3-363-099-01	SCREW (CASE 3 TP2)	
4	1-769-978-11	WIRE (FLAT TYPE)(13 CORE)	(H771:US, CND, E2, AUS, MX, AR, TH/H771D)
4	1-773-010-11	WIRE (FLAT TYPE)(15 CORE)	(H771:AEP, UK, E3, G, IT, EE, CIS, EA, MY, HK, SP)
＊ 5	1-233-544-11	ENCAPSLATED COMPONENT, FM/AM TUNER	(H771:US, CND/H771D)
＊ 5	1-233-545-11	ENCAPSLATED COMPONENT, FM/AM TUNER	(H771:E2, AUS, AR, MX)
＊ 5	1-233-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER	(H771:E3, EA, MY, SP, HK)
＊ 5	A-4303-514-A	TCB BOARD, COMPLETE (H771:AEP, UK)	
＊ 5	A-4303-515-A	TCB BOARD, COMPLETE (H771:IT, G)	
＊ 5	A-4303-516-A	TCB BOARD, COMPLETE (H771:EE)	
＊ 5	A-4303-517-A	TCB BOARD, COMPLETE (H771:CIS)	
＊ 5	A-4303-537-A	TCB BOARD, COMPLETE (H771:TH)	
6	1-769-978-11	WIRE (FLAT TYPE)(13 CORE)	
7	1-769-946-11	WIRE (FLAT TYPE)(11 CORE)	
8	1-773-157-11	WIRE (FLAT TYPE)(21 CORE)	
9	1-776-166-11	WIRE (FLAT TYPE)(19 CORE)	
＊ 10	A-4377-454-A	POLAR BOARD, COMPLETE (H771:CIS)	
11	1-769-979-11	WIRE (FLAT TYPE)(13 CORE)(CIS)	

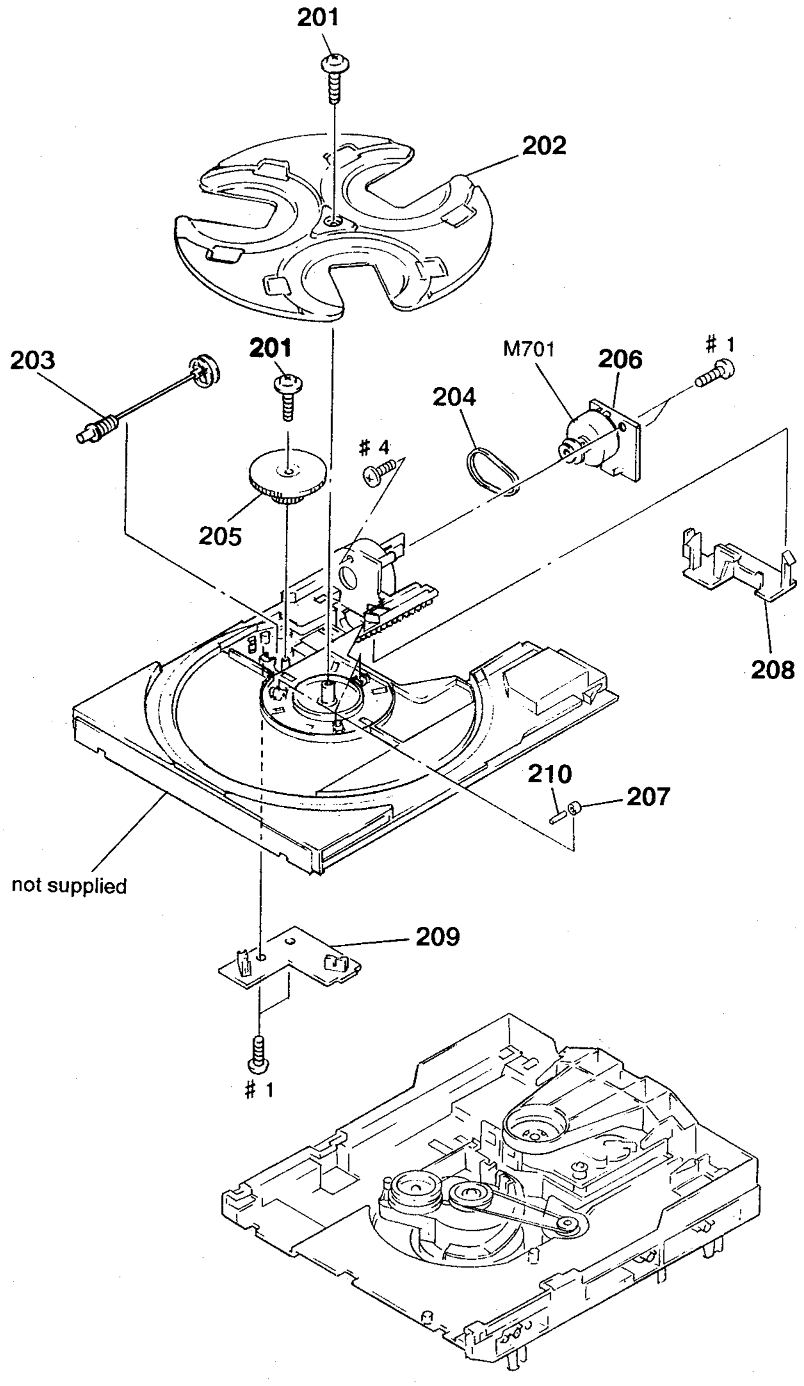
7-4. FRONT PANEL SECTION 2


151
160
159
158
157
168
not supplied
162
161
165
not supplied
164
154
163
not supplied
167
152
166
not supplied
not supplied
153
155
156

Ref. No.	Part No.	Description	Remark
151	X-4946-705-1	PANEL ASSY, FRONT	
152	4-978-715-01	WINDOW, 3-CD	
153	4-978-716-01	WINDOW, FL	
154	4-962-708-11	EMBLEM (4-A), SONY	
155	4-978-745-01	PLATE, ORNAMENTAL, JOG	
156	4-930-336-61	FOOT (FELT)	
157	4-978-739-01	INDICATOR, CLIP	
158	4-978-744-11	PLATE, ORNAMENTAL, MULTI	
159	4-978-742-01	HOLDER, MULTI LED	
160	4-978-728-01	BUTTON, MULTI	

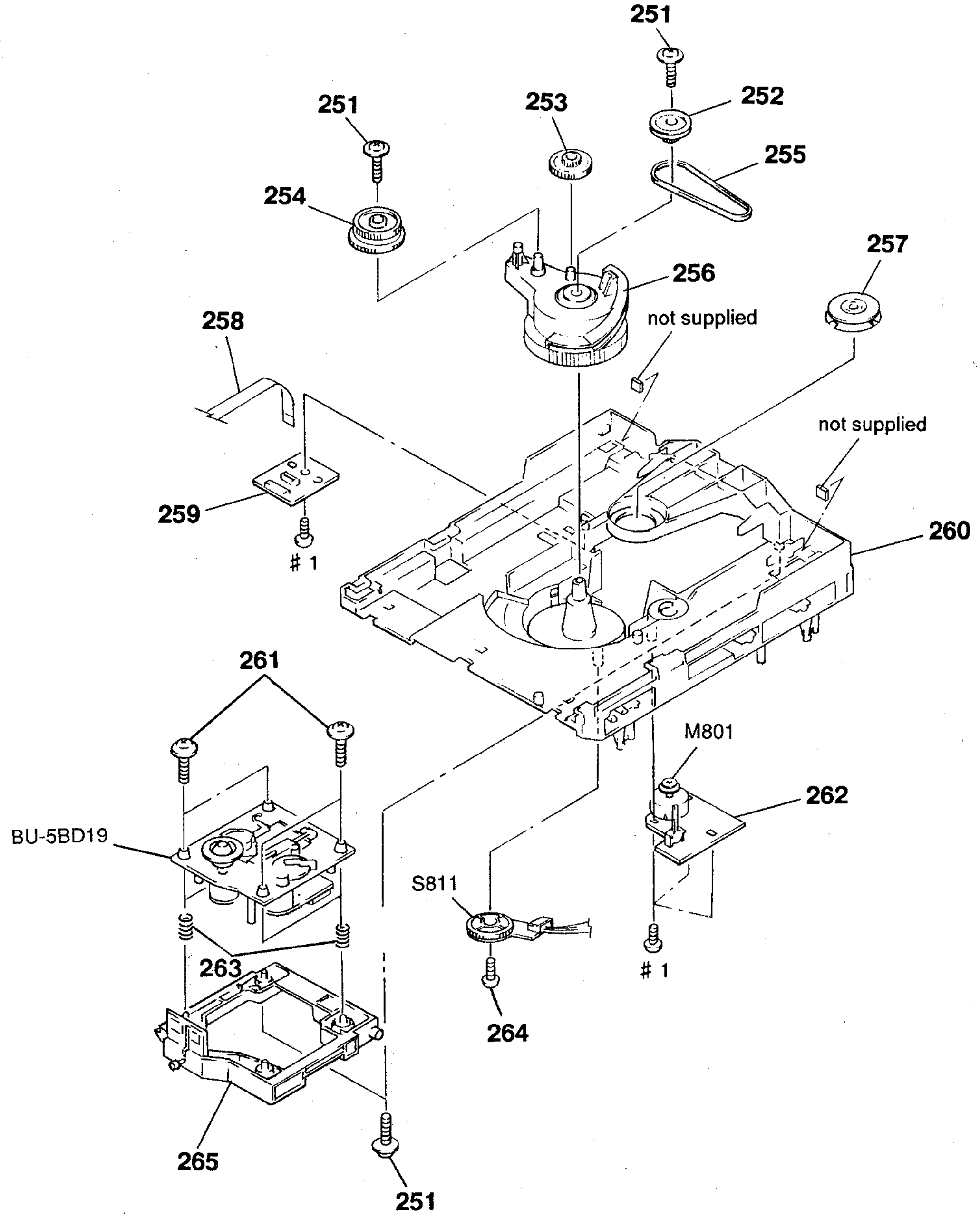
Ref. No.	Part No.	Description	Remark
161	4-978-723-01	BUTTON, POWER	
162	X-4946-703-1	BUTTON (3-CD) ASSY	
163	X-4946-698-1	BUTTON (CD-PLAY) ASSY	
164	X-4946-801-1	BUTTON (ENTER/NEXT)(E5) ASSY	
165	4-978-741-01	INDICATOR, JOG-B	
166	4-978-851-01	INDICATOR, REC	
167	X-4946-707-1	BUTTON (TC-PLAY) ASSY	
168	X-4946-706-1	BUTTON (T/B) ASSY	

7-5. CD MECHANISM SECTION 1
(CDM38-5BD19)


201
202
203
201
M701
206
# 1
204
# 4
205
208
210
207
not supplied
209
# 1

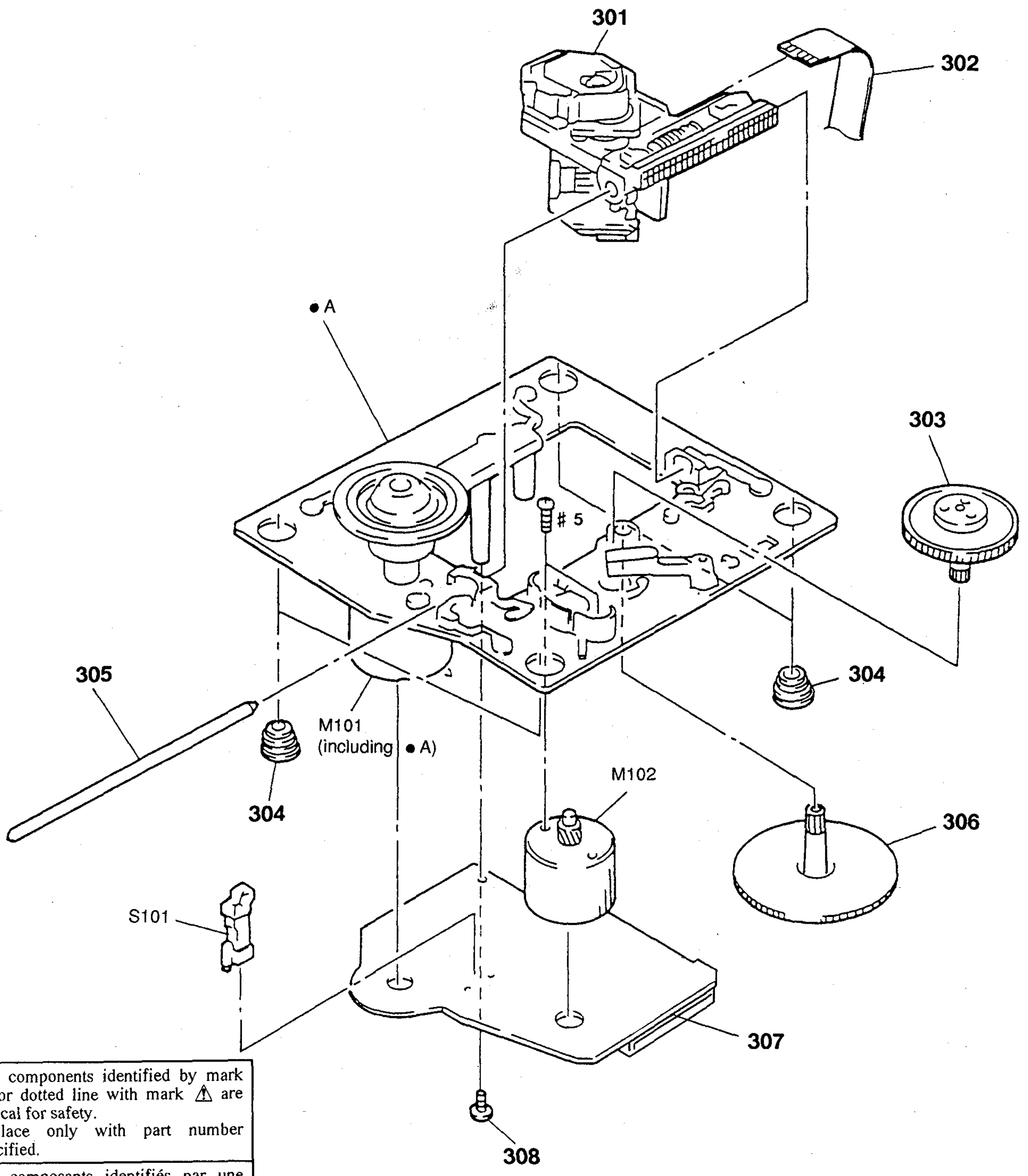
Ref. No.	Part No.	Description	Remark
201	4-917-583-21	BRACKET, YOKE	
202	4-977-945-01	TRAY (TURN)	
203	X-4946-665-2	SHAFT ASSY, WORM	
204	4-977-943-01	BELT (TURN)(1.2)	
205	4-977-956-01	WHEEL, WORM	
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	X-4924-457-1	ROLLER ASSY	
208	4-977-941-01	BEARING (WORM)	
* 209	1-658-576-12	SENSOR BOARD	
210	4-934-376-01	SHAFT (ROLLER)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	

7-6. CD MECHANISM SECTION 2 (CDM38-5BD19)


251
251
253
252
255
254
257
256
not supplied
258
not supplied
259
# 1
260
261
M801
262
BU-5BD19
S811
263
# 1
264
265
251

Ref. No.	Part No.	Description	Remark
251	4-917-583-21	BRACKET, YOKE	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-667-1	CAM ASSY, BU	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	
261	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 262	1-658-578-12	MOTOR (SLIDE) BOARD	
263	4-982-447-01	SPRING (BU), COMPRESSION	
264	4-951-620-41	SCREW (2.6), +BVTP	
* 265	X-4946-666-1	HOLDER (BU) ASSY	
M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
S811	1-473-335-11	ENCODER, ROTARY	

7-7. BASE UNIT SECTION (BU-5BD19)



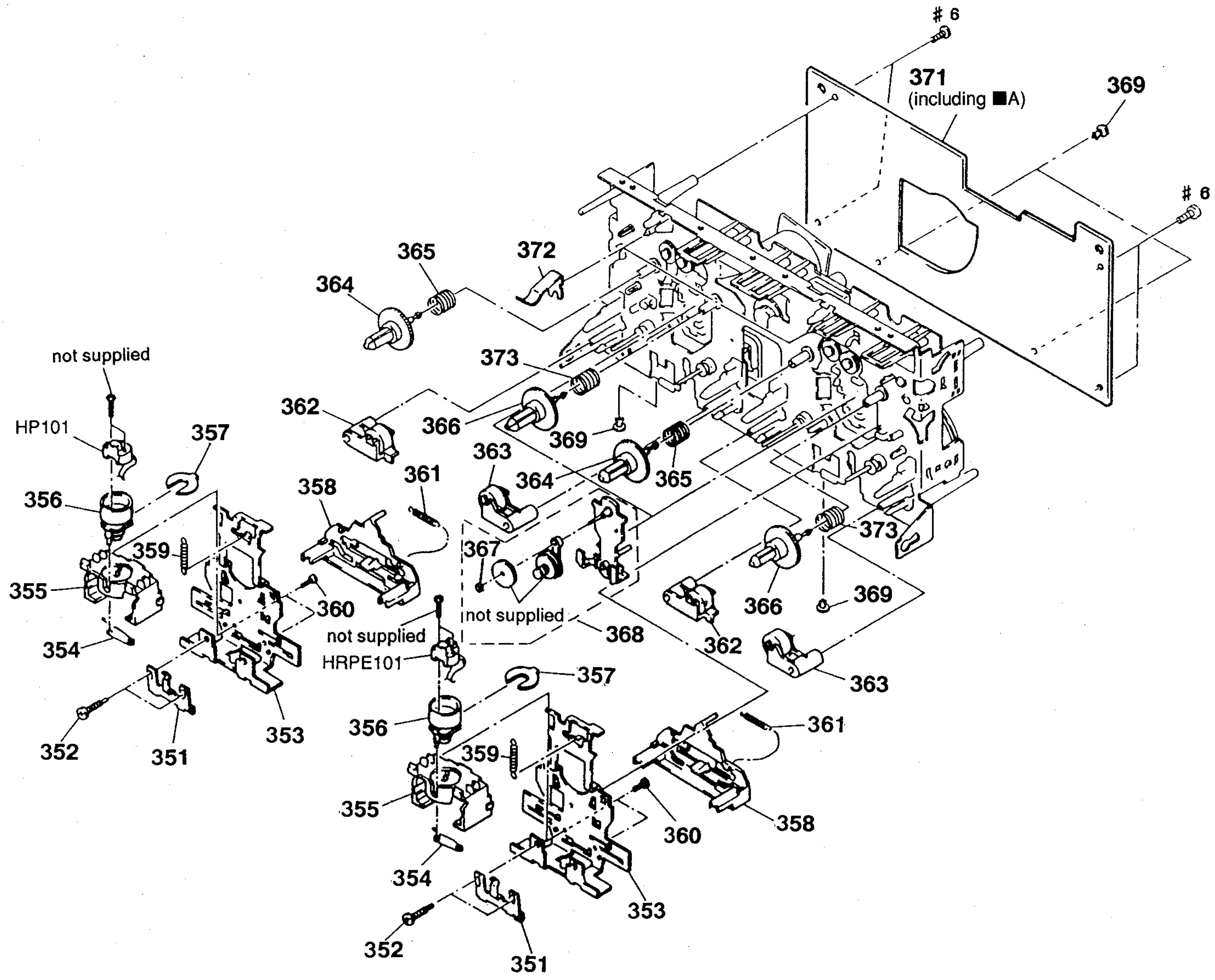
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠301	8-848-367-01	OPTICAL PICK-UP KSS-213BA/F-NP	
302	1-769-069-11	WIRE (FLAT TYPE)(16 CORE)	
303	4-917-567-01	GEAR (M)	
304	4-951-940-01	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	

Ref. No.	Part No.	Description	Remark
* 307	A-4673-402-A	BD BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

7-8. TC MECHANISM SECTION 1
(TCM-220 WR2E)

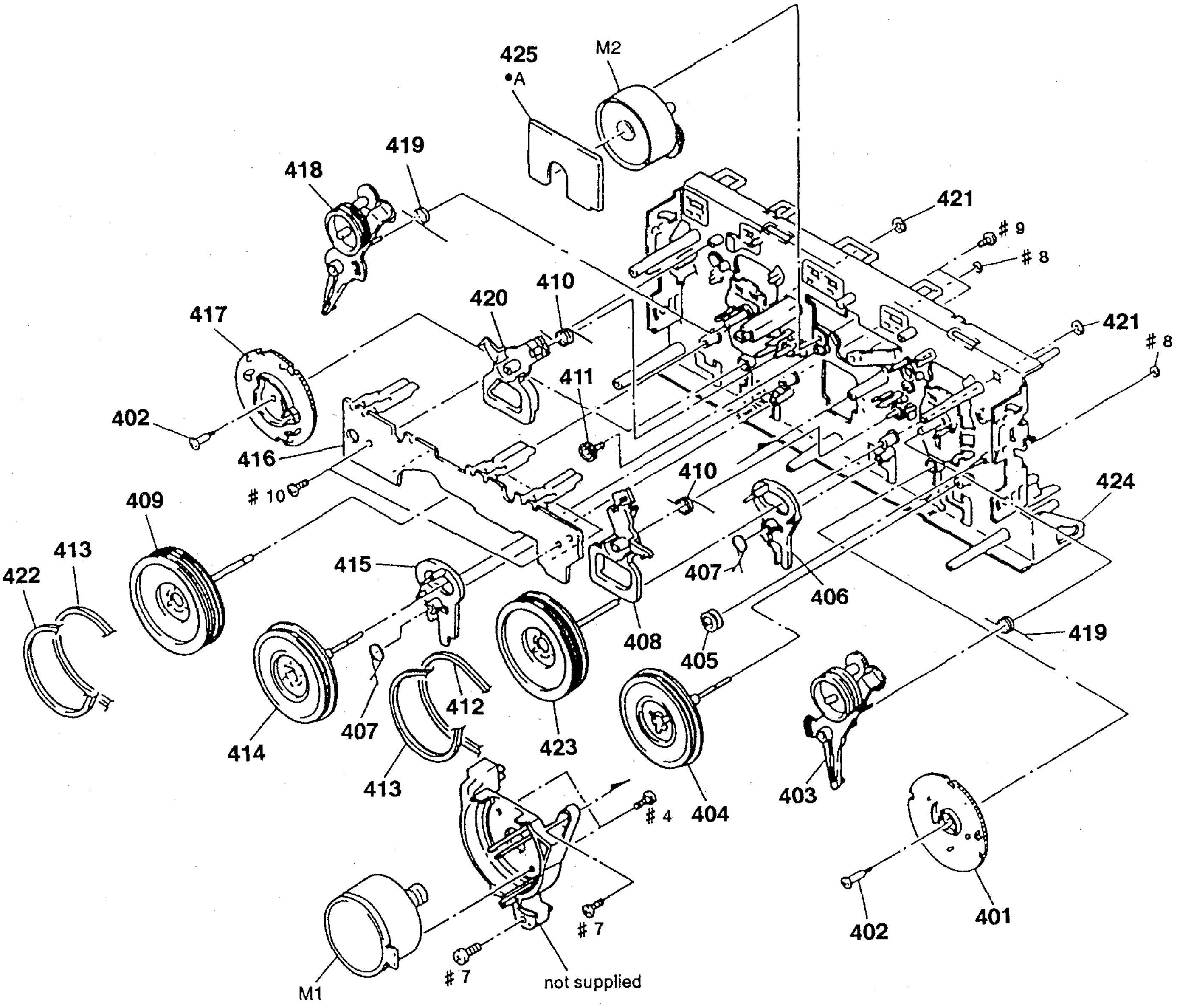


# 6
371
(including ■A)
369
# 6
365
372
364
not supplied
373
HP101
362
357
366
369
363
356
358
361
364
365
359
367
373
355
360
not supplied
369
366
not supplied
368
HRPE101
362
354
357
363
352
351
353
356
361
359
355
360
358
354
353
352
351

Ref. No.	Part No.	Description	Remark
351	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
352	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
* 353	X-3367-584-2	SLIDER (HEAD) ASSY	
354	3-908-556-01	SPRING, HEAD TOGGLE	
355	3-908-558-02	FITTING BLOCK, HEAD	
356	3-908-557-02	ROTARY BLOCK, HEAD	
* 357	3-908-559-01	STOPPER, AZIMUTH	
358	3-908-555-01	SLIDER (REV SLIDER)	
359	3-917-143-11	SPRING, TENSION	
360	3-388-848-01	SCREW (P2X6)(B TIGHT)	
361	3-911-113-01	SPRING, TENSION	
362	X-3370-643-1	PINCH LEVER (REV) ASSY	
363	X-3367-588-1	PINCH LEVER (FWD) ASSY	
364	3-908-613-01	GEAR (S), REEL	
365	3-917-141-01	SPRING, COMPRESSION	
366	X-3371-305-1	REEL (T) ASSY	
367	3-669-465-01	WASHER (1.5), STOPPER	
368	X-3370-173-1	TU ASSY	
369	3-911-116-21	RIVET, PUSH	
* 371	A-2007-435-A	MD BOARD, COMPLETE	
372	3-930-972-01	DETENT, HALF	
373	3-917-142-01	SPRING, COMPRESSION	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	

7-9. TC MECHANISM SECTION 2 (TCM-220 WR2E)

■ A: MOTOR board (Supplied with MD board)


425
•A
M2
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418
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# 10
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423
413
404
403
# 4
# 7
402
401
# 7
not supplied
M1

Ref. No.	Part No.	Description	Remark
401	3-908-597-01	CAM (A)	
402	3-908-608-11	SCREW, STEP	
403	X-3367-590-2	ARM (A) ASSY, FR	
404	X-3370-169-1	FLYWHEEL (AR) ASSY	
405	3-928-047-01	PULLEY, TENSION	
406	3-908-599-01	LEVER (REV-A)	
407	3-908-601-01	SPRING (REV LEVER), TORSION	
408	3-908-603-01	LEVER (TRIGGER A)	
409	X-3370-170-1	FLYWHEEL (BF) ASSY	
410	3-908-605-01	SPRING (TRIGGER), TORSION	
411	3-908-609-01	GEAR, TRIGGER	
412	3-913-845-11	BELT (A)	
413	3-913-846-11	BELT (FR)	
414	X-3370-171-1	FLYWHEEL (BR) ASSY	
415	3-908-600-01	LEVER (REV-B)	
* 416	1-650-669-11	LEAF SWITCH BOARD	
417	3-908-598-01	CAM (B)	
418	X-3369-849-2	ARM (B) ASSY, FR	
419	3-914-111-01	SPRING (FR), TORSION	
420	3-908-604-01	LEVER (TRIGGER B)	
421	3-911-115-01	WASHER, STOPPER	
422	3-917-176-11	BELT (B)	
423	X-3370-172-1	FLYWHEEL (AF) ASSY	
424	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
425	A-2007-435-A	MD BOARD, COMPLETE	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-2004-410-A	MOTOR ASSY (TRIGGER)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviation

CND	: Canadian model
G	: German model
IT	: Italian model
EE	: East European model
EA	: Saudi Arabia model
MX	: Mexican model
HK	: Hong Kong model
SP	: Singapore model
MY	: Malaysia model
AUS	: Australian model
AR	: Argentine model
TH	: Thailand model.
E2	: Without SW tuner model
E3	: With SW tuner model

Ref. No.	Part No.	Description				Remark
*	A-4673-402-A	BD BOARD, COMPLETE				
		******************				
		< CAPACITOR >				
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	
C103	1-164-346-11	CERAMIC CHIP	1uF		16V	
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V	
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V	
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V	
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V	
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C116	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V	
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V	
C118	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V	
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V	
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V	
C134	1-164-346-11	CERAMIC CHIP	1uF		16V	
C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V	
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	
C149	1-164-346-11	CERAMIC CHIP	1uF		16V	
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
		< CONNECTOR >				
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P				
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P				
		< IC >				
IC101	8-752-069-56	IC	CXA1782BQ			
IC102	8-759-291-06	IC	BA6397FP			
IC103	8-752-372-94	IC	CXD2507AQ			
IC104	8-759-185-29	IC	PCM1710U-B			
		< TRANSISTOR >				
Q101	8-729-010-08	TRANSISTOR	MSB710-R			
Q102	8-729-424-08	TRANSISTOR	UN2111			
Q103	8-729-421-22	TRANSISTOR	UN2211			
		< RESISTOR >				
R102	1-216-001-00	METAL CHIP	10	5%	1/10W	
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R104	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R105	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R106	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R107	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R108	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R109	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R113	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R117	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	

BD CD SW

Ref. No.	Part No.	Description	Remark
R118	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R119	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R120	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R121	1-216-114-00	METAL GLAZE 510K 5% 1/10W	
R122	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R123	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R124	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R125	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R126	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R127	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R128	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R129	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R130	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R131	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R132	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R133	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R134	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R135	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R136	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R137	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R138	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R139	1-216-033-00	METAL CHIP 220 5% 1/10W	
R140	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R141	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R142	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R143	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R144	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R145	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R146	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R147	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R148	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R149	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R150	1-216-037-00	METAL CHIP 330 5% 1/10W	
R151	1-216-037-00	METAL CHIP 330 5% 1/10W	
R152	1-216-037-00	METAL CHIP 330 5% 1/10W	
R153	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R154	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R156	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R157	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R158	1-216-001-00	METAL CHIP 10 5% 1/10W	
		< VARIABLE RESISTOR >	
RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K	
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K	
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K	
		< SWITCH >	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)	

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Ref. No.	Part No.	Description	Remark
*	A-4389-157-A	CD SW BOARD, COMPLETE ********************* (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
*	A-4389-418-A	CD SW BOARD, COMPLETE ********************* (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)	
*	A-4389-772-A	CD SW BOARD, COMPLETE (H771:TH) *******************************	
		< CONNECTOR >	
* CN512	1-568-947-11	PIN, CONNECTOR 9P	
		< DIODE >	
D516	8-719-056-13	DIODE SML79423C-TP15 (DISC 1)	
D517	8-719-056-13	DIODE SML79423C-TP15 (DISC 1)	
D518	8-719-056-13	DIODE SML79423C-TP15 (DISC 2)	
D519	8-719-056-13	DIODE SML79423C-TP15 (DISC 2)	
D520	8-719-056-13	DIODE SML79423C-TP15 (DISC 3)	
D521	8-719-056-13	DIODE SML79423C-TP15 (DISC 3)	
D522	8-719-056-13	DIODE SML79423C-TP15 (▷▯▯)	
		< TRANSISTOR >	
Q510	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q513	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R518	1-249-401-11	CARBON 47 5% 1/4W	F
R519	1-249-403-11	CARBON 68 5% 1/4W	F
R520	1-247-807-31	CARBON 100 5% 1/4W	
R521	1-249-407-11	CARBON 150 5% 1/4W	F
R522	1-249-407-11	CARBON 150 5% 1/4W	F
R523	1-249-409-11	CARBON 220 5% 1/4W	F
R524	1-249-411-11	CARBON 330 5% 1/4W	
R525	1-249-413-11	CARBON 470 5% 1/4W	F
R596	1-247-807-31	CARBON 100 5% 1/4W	
R597	1-247-807-31	CARBON 100 5% 1/4W	
R598	1-247-807-31	CARBON 100 5% 1/4W	
R599	1-247-807-31	CARBON 100 5% 1/4W	
R600	1-247-807-31	CARBON 100 5% 1/4W	
R601	1-247-807-31	CARBON 100 5% 1/4W	
R602	1-247-807-31	CARBON 100 5% 1/4W	
R603	1-247-807-31	CARBON 100 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R604	1-247-807-31	CARBON 100 5% 1/4W	
R605	1-247-807-31	CARBON 100 5% 1/4W	
R606	1-247-807-31	CARBON 100 5% 1/4W	
R607	1-247-807-31	CARBON 100 5% 1/4W	
R608	1-247-807-31	CARBON 100 5% 1/4W	
R609	1-247-807-31	CARBON 100 5% 1/4W	
		< SWITCH >	
S500	1-554-303-21	SWITCH, TACTILE (POWER)	
S501	1-554-303-21	SWITCH, TACTILE (LOOP)	
S502	1-554-303-21	SWITCH, TACTILE (DISC SKIP EX-CHANGE)	
S503	1-554-303-21	SWITCH, TACTILE (DISC 1)	
S504	1-554-303-21	SWITCH, TACTILE (DISC 2)	
S505	1-554-303-21	SWITCH, TACTILE (DISC 3)	
S506	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)	
S507	1-554-303-21	SWITCH, TACTILE (■)	
S508	1-554-303-21	SWITCH, TACTILE (▷II)	
***			
*	1-658-575-11	CONNECTOR BOARD ***************	
		< CONNECTOR >	
* CN701	1-568-946-11	PIN, CONNECTOR 8P	
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P	
		< TRANSISTOR >	
Q701	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	
R703	1-249-435-11	CARBON 33K 5% 1/4W	
R704	1-249-429-11	CARBON 10K 5% 1/4W	
R705	1-249-417-11	CARBON 1K 5% 1/4W	F
***			
*	1-233-544-11	ENCAPSLATED COMPONENT, FM/AM TUNER ********************************** (H771:US, CND/H771D)	
*	1-233-545-11	ENCAPSLATED COMPONENT, FM/AM TUNER ********************************** (H771:E2, MX, AUS, AR)	
*	1-233-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER ********************************** (H771:E3, EA, HK, MY, SP)	
***			

Ref. No.	Part No.	Description	Remark
*	A-4389-156-A	HP BOARD, COMPLETE ****************** (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
*	A-4389-417-A	HP BOARD, COMPLETE ****************** (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)	
*	A-4389-771-A	HP BOARD, COMPLETE (H771:TH) ****************************	
		< CAPACITOR >	
C529	1-164-159-11	CERAMIC 0.1uF 50V	
C530	1-126-163-11	ELECT 4.7uF 20% 50V	
C531	1-124-464-11	ELECT 0.22uF 20% 50V	
C532	1-164-159-11	CERAMIC 0.1uF 50V	
C533	1-126-160-11	ELECT 1uF 20% 50V	
C534	1-136-155-00	FILM 0.015uF 5% 50V	
C535	1-124-464-11	ELECT 0.22uF 20% 50V	
C536	1-136-167-00	FILM 0.15uF 5% 50V	
C537	1-162-302-11	CERAMIC 0.0022uF 30% 16V	
C538	1-124-464-11	ELECT 0.22uF 20% 50V	
C570	1-164-159-11	CERAMIC 0.1uF 50V	
C571	1-164-159-11	CERAMIC 0.1uF 50V	
C640	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C642	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C643	1-162-215-31	CERAMIC 47PF 5% 50V	
C644	1-162-290-31	CERAMIC 470PF 10% 50V	
C645	1-124-254-00	ELECT 0.68uF 20% 50V	
C646	1-162-282-31	CERAMIC 100PF 10% 50V	
C647	1-162-215-31	CERAMIC 47PF 5% 50V	
C648	1-124-257-00	ELECT 2.2uF 20% 50V	
C649	1-124-589-11	ELECT 47uF 20% 16V	
C650	1-124-589-11	ELECT 47uF 20% 16V	
C651	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C652	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C661	1-124-463-00	ELECT 0.1uF 20% 50V	
		< CONNECTOR >	
* CN514	1-568-944-11	PIN, CONNECTOR 6P	
		< DIODE >	
D560	8-719-987-63	DIODE 1N4148M	
D561	8-719-987-63	DIODE 1N4148M	
D562	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC601	8-759-634-51	IC M5218AP	
		< JACK >	
J501	1-770-226-11	JACK (LARGE TYPE)(PHONES)	

HP JOG LEAF SWITCH

Ref. No.	Part No.	Description	Remark
J601	1-770-226-11	JACK (LARGE TYPE)(MIX MIC)	
		< RESISTOR >	
R631	1-247-899-11	CARBON 680K 5% 1/4W	
R632	1-247-899-11	CARBON 680K 5% 1/4W	
R633	1-247-899-11	CARBON 680K 5% 1/4W	
R640	1-249-429-11	CARBON 10K 5% 1/4W	
R641	1-249-429-11	CARBON 10K 5% 1/4W	
R642	1-249-417-11	CARBON 1K 5% 1/4W	F
R643	1-249-417-11	CARBON 1K 5% 1/4W	F
R644	1-249-433-11	CARBON 22K 5% 1/4W	
R645	1-249-429-11	CARBON 10K 5% 1/4W	
R653	1-249-411-11	CARBON 330 5% 1/4W	
R654	1-249-437-11	CARBON 47K 5% 1/4W	
R655	1-247-895-00	CARBON 470K 5% 1/4W	
R656	1-249-411-11	CARBON 330 5% 1/4W	
R657	1-249-437-11	CARBON 47K 5% 1/4W	
R658	1-247-895-00	CARBON 470K 5% 1/4W	
R659	1-249-411-11	CARBON 330 5% 1/4W	
R660	1-249-437-11	CARBON 47K 5% 1/4W	
R661	1-247-895-00	CARBON 470K 5% 1/4W	
R666	1-247-881-00	CARBON 120K 5% 1/4W	
R667	1-247-807-31	CARBON 100 5% 1/4W	
		< VARIABLE RESISTOR >	
RV601	1-223-984-11	RES, VAR, CARBON 50K (MIC LEVEL)	

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Ref. No.	Part No.	Description	Remark
*	A-4389-190-A	JOG BOARD, COMPLETE ******************* (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
*	A-4389-419-A	JOG BOARD, COMPLETE ******************* (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)	
*	A-4389-773-A	JOG BOARD, COMPLETE (H771:TH) *****************************	
		< CAPACITOR >	
C524	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C525	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C526	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C527	1-162-306-11	CERAMIC 0.01uF 30% 16V	
		< DIODE >	
D508	8-719-033-06	DIODE SEL5920A (KARAOKE PON/MPX)	
D509	8-719-812-44	DIODE TLO124 (ENTER/NEXT)	
D510	8-719-033-06	DIODE SEL5920A (▶▶|)	
D511	8-719-033-06	DIODE SEL5920A (|◀◀)	
D512	8-719-033-06	DIODE SEL5920A (↘)	
D513	8-719-033-06	DIODE SEL5920A (↙)	
D514	8-719-033-06	DIODE SEL5920A (+)	
D515	8-719-033-06	DIODE SEL5920A (-)	
		< TRANSISTOR >	
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q508	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R541	1-249-413-11	CARBON 470 5% 1/4W	F
R542	1-249-415-11	CARBON 680 5% 1/4W	F
R543	1-249-417-11	CARBON 1K 5% 1/4W	F
R544	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R545	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R546	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R588	1-247-807-31	CARBON 100 5% 1/4W	
R589	1-249-407-11	CARBON 150 5% 1/4W	F
R590	1-247-807-31	CARBON 100 5% 1/4W	
R591	1-247-807-31	CARBON 100 5% 1/4W	
R592	1-247-807-31	CARBON 100 5% 1/4W	
R593	1-247-807-31	CARBON 100 5% 1/4W	
R594	1-247-807-31	CARBON 100 5% 1/4W	
R595	1-247-807-31	CARBON 100 5% 1/4W	
		< SWITCH >	
S524	1-554-303-21	SWITCH, TACTILE (DBFB)	
S525	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)	
S527	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)	
S528	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)	
S529	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)	
S561	1-467-869-11	ENCODER, ROTARY (VOLUME, +, -)	
S562	1-467-968-11	ENCODER, ROTARY (- |◀◀, MULTI JOG STATION, ▶▶| +)	

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Ref. No.	Part No.	Description	Remark
*	1-650-669-11	LEAF SWITCH BOARD *****************	
		< CONNECTOR >	
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P	
		< PHOTO REFLECTOR >	
Q1001	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H2	
Q1002	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H2	
		< RESISTOR >	
R1001	1-249-412-11	CARBON 390 5% 1/4W	F
R1002	1-249-412-11	CARBON 390 5% 1/4W	F
R1003	1-249-414-11	CARBON 560 5% 1/4W	F

Ref. No.	Part No.	Description			Remark
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
		< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY)(A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY)(B PLAY)			
S1003	1-572-248-11	SWITCH, LEAF (A HALF)			
S1004	1-571-281-21	SWITCH, LEAF (A CrO2)			
S1005	1-571-281-21	SWITCH, LEAF (REC A)			
S1006	1-572-248-11	SWITCH, LEAF (B HALF)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			

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Ref. No.	Part No.	Description			Remark
*	A-4389-173-A	MAIN BOARD, COMPLETE (H771:AEP,UK) ***********************************			
*	A-4389-175-A	MAIN BOARD, COMPLETE (H771:G,IT) *********************************			
*	A-4389-176-A	MAIN BOARD, COMPLETE (H771:EE) *******************************			
*	A-4389-177-A	MAIN BOARD, COMPLETE (H771:CIS) ********************************			
*	A-4389-178-A	MAIN BOARD, COMPLETE (H771:E2,MX,AR) *************************************			
*	A-4389-180-A	MAIN BOARD, COMPLETE ******************** (H771:E3,EA,MY,HK,SP)			
*	A-4389-775-A	MAIN BOARD, COMPLETE (H771:TH) *******************************			
*	A-4389-929-A	MAIN BOARD, COMPLETE (H771:US,CND) ***********************************			
*	A-4389-933-A	MAIN BOARD, COMPLETE (H771D) *****************************			
*	A-4390-653-A	MAIN BOARD, COMPLETE (H771:AUS) ********************************			
	1-537-770-21	TERMINAL BOARD, GROUND			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C201	1-126-961-11	ELECT	2.2uF	20%	50V
C202	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C203	1-124-472-11	ELECT	470uF	20%	10V
C204	1-162-282-31	CERAMIC	100PF	10%	50V
C205	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-126-941-11	ELECT	470uF	20%	6.3V
C251	1-126-961-11	ELECT	2.2uF	20%	50V
C252	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C301	1-130-479-00	MYLAR	0.0047uF	5%	50V
C302	1-162-290-31	CERAMIC	470PF	10%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-124-903-11	ELECT	1uF	20%	50V
C306	1-124-902-00	ELECT	0.47uF	20%	50V
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-124-903-11	ELECT	1uF	20%	50V
C310	1-126-933-11	ELECT	100uF	20%	10V
C351	1-130-479-00	MYLAR	0.0047uF	5%	50V
C352	1-162-290-31	CERAMIC	470PF	10%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-124-903-11	ELECT	1uF	20%	50V
C356	1-124-902-00	ELECT	0.47uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-124-903-11	ELECT	1uF	20%	50V
C360	1-126-933-11	ELECT	100uF	20%	10V
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-126-933-11	ELECT	100uF	20%	16V
C405	1-126-952-11	ELECT	1000uF	20%	16V
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V
C702	1-126-926-11	ELECT	1000uF	20%	10V
C703	1-126-964-11	ELECT	10uF	20%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V
C706	1-126-965-11	ELECT	22uF	20%	50V
C707	1-162-206-31	CERAMIC	20PF	5%	50V
C708	1-162-206-31	CERAMIC	20PF	5%	50V
C710	1-162-306-11	CERAMIC	0.01uF	30%	16V
C713	1-162-306-11	CERAMIC	0.01uF	30%	16V (H771:US,CND,AEP,UK,G,IT,EE/H771D)
C789	1-126-923-11	ELECT	220uF	20%	10V
C810	1-162-306-11	CERAMIC	0.01uF	30%	16V
C811	1-162-306-11	CERAMIC	0.01uF	30%	16V
C821	1-162-286-31	CERAMIC	220PF	10%	50V
C825	1-109-889-11	ELECT	1uF	20%	50V
C831	1-162-286-21	CERAMIC	220PF	10%	50V
C871	1-162-286-31	CERAMIC	220PF	10%	50V
C881	1-162-286-21	CERAMIC	220PF	10%	50V
C901	1-136-169-00	FILM	0.22uF	5%	50V
C902	1-136-169-00	FILM	0.22uF	5%	50V
C903	1-136-495-11	FILM	0.068uF	5%	50V
C904	1-136-495-11	FILM	0.068uF	5%	50V
C905	1-136-156-00	FILM	0.018uF	5%	50V
C906	1-136-156-00	FILM	0.018uF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C907	1-130-480-00	MYLAR	0.0056uF	5%	50V
C908	1-130-479-00	MYLAR	0.0047uF	5%	50V
C909	1-130-474-00	MYLAR	0.0018uF	5%	50V
C910	1-126-964-11	ELECT	10uF	20%	50V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-136-165-00	FILM	0.1uF	5%	50V
C913	1-136-165-00	FILM	0.1uF	5%	50V
C914	1-126-964-11	ELECT	10uF	20%	50V
C930	1-136-165-00	FILM	0.1uF	5%	50V
C931	1-136-153-00	FILM	0.01uF	5%	50V
C933	1-124-902-00	ELECT	0.47uF	20%	50V
C935	1-164-159-11	CERAMIC	0.1uF		50V
C936	1-126-964-11	ELECT	10uF	20%	50V
C938	1-162-290-31	CERAMIC	470PF	10%	50V
C939	1-126-967-11	ELECT	47uF	20%	10V
C940	1-126-967-11	ELECT	47uF	20%	10V
C951	1-136-169-00	FILM	0.22uF	5%	50V
C952	1-136-169-00	FILM	0.22uF	5%	50V
C953	1-136-495-11	FILM	0.068uF	5%	50V
C954	1-136-495-11	FILM	0.068uF	5%	50V
C955	1-136-156-00	FILM	0.018uF	5%	50V
C956	1-136-156-00	FILM	0.018uF	5%	50V
C957	1-130-480-00	MYLAR	0.0056uF	5%	50V
C958	1-130-479-00	MYLAR	0.0047uF	5%	50V
C959	1-130-474-00	MYLAR	0.0018uF	5%	50V
C960	1-126-964-11	ELECT	10uF	20%	50V
C961	1-126-964-11	ELECT	10uF	20%	50V
C962	1-136-165-00	FILM	0.1uF	5%	50V
C963	1-136-165-00	FILM	0.1uF	5%	50V
C964	1-126-964-11	ELECT	10uF	20%	50V
C1001	1-126-937-11	ELECT	4700uF	20%	16V
C1002	1-126-768-11	ELECT	2200uF	20%	16V
C1003	1-126-964-11	ELECT	10uF	20%	50V
C1005	1-126-964-11	ELECT	10uF	20%	50V
C1006	1-126-933-11	ELECT	100uF	20%	10V
C1007	1-126-934-11	ELECT	220uF	20%	16V
C1008	1-126-933-11	ELECT	100uF	20%	16V
C1010	1-164-159-11	CERAMIC	0.1uF		50V
C1011	1-164-159-11	CERAMIC	0.1uF		50V
C1012	1-126-964-11	ELECT	10uF	20%	50V
C1013	1-126-916-11	ELECT	1000uF	20%	6.3V
C1014	1-126-964-11	ELECT	10uF	20%	50V
C1015	1-126-964-11	ELECT	10uF	20%	50V
C1016	1-126-925-11	ELECT	470uF	20%	10V
C1017	1-126-925-11	ELECT	470uF	20%	10V
C1018	1-126-942-61	ELECT	1000uF	20%	25V
C1019	1-126-934-11	ELECT	220uF	20%	16V
C1020	1-126-947-11	ELECT	47uF	20%	35V
C1021	1-126-964-11	ELECT	10uF	20%	50V
C1022	1-126-968-11	ELECT	100uF	20%	50V
C1023	1-126-968-11	ELECT	100uF	20%	50V
C1025	1-126-925-11	ELECT	470uF	20%	10V
C1026	1-126-925-11	ELECT	470uF	20%	10V
C1221	1-126-933-11	ELECT	100uF	20%	10V
C1222	1-126-923-11	ELECT	220uF	20%	10V
C1223	1-126-923-11	ELECT	220uF	20%	10V
C1224	1-124-925-11	ELECT	2.2uF	20%	100V
C1230	1-126-974-11	ELECT	3300uF	20%	50V
C1235	1-126-974-11	ELECT	3300uF	20%	50V
C1248	1-136-495-11	FILM	0.068uF	5%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1249	1-136-495-11	FILM	0.068uF	5%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1250	1-162-294-31	CERAMIC	0.001uF	10%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1270	1-130-781-00	FILM	0.22uF	10%	100V
C1271	1-130-781-00	FILM	0.22uF	10%	100V
C1280	1-162-282-31	CERAMIC	100PF	10%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1298	1-136-495-11	FILM	0.068uF	5%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1299	1-136-495-11	FILM	0.068uF	5%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1300	1-162-294-31	CERAMIC	0.001uF	10%	50V
					(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
CN201	1-770-067-11	CONNECTOR, FFC/FPC 19P	
* CN202	1-568-936-11	PIN, CONNECTOR 9P	
* CN203	1-568-935-11	PIN, CONNECTOR 8P	
CN401	1-568-838-11	SOCKET, CONNECTOR 21P	
* CN402	1-568-830-11	SOCKET, CONNECTOR 11P	
* CN403	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
* CN404	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
* CN702	1-568-832-11	SOCKET, CONNECTOR 13P	
* CN703	1-568-832-11	SOCKET, CONNECTOR 13P	
			(H771:US, CND, E2, AUS, MX, AR, TH/H771D)
* CN703	1-568-834-11	SOCKET, CONNECTOR 15P	
			(H771:AEP, UK, E3, G, IT, EE, CIS, EA, MY, HK, SP)
* CN1001	1-564-513-11	PLUG, CONNECTOR 10P	

< DIODE >

Ref. No.	Part No.	Description		Remark
D201	8-719-987-63	DIODE	1N4148M	
D202	8-719-987-63	DIODE	1N4148M	
D401	8-719-933-54	DIODE	HZS9A2L	
D701	8-719-987-63	DIODE	1N4148M	
D702	8-719-987-63	DIODE	1N4148M	
D703	8-719-987-63	DIODE	1N4148M	
D704	8-719-987-63	DIODE	1N4148M	
D705	8-719-987-63	DIODE	1N4148M	
D706	8-719-024-99	DIODE	11ES2-NTA2B	
				(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)

Ref. No.	Part No.	Description	Remark
D706	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D707	8-719-987-63	DIODE 1N4148M	
D708	8-719-987-63	DIODE 1N4148M	
D721	8-719-987-63	DIODE 1N4148M	
D722	8-719-987-63	DIODE 1N4148M	
D1001	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1001	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1002	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1002	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1003	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1003	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1004	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1004	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1005	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1005	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1006	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1006	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1007	8-719-987-63	DIODE 1N4148M	
D1008	8-719-001-42	DIODE UZL-11M1	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1008	8-719-001-43	DIODE UZL-11M1-TA	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1013	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1009	8-719-987-63	DIODE 1N4148M	
D1010	8-719-987-63	DIODE 1N4148M	
D1011	8-719-010-43	DIODE UZ-5.6BSC	
D1013	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1014	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1014	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1016	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1016	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1017	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1017	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1018	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1018	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1021	8-719-025-01	DIODE 11ES2-NTA1B	
D1022	8-719-025-01	DIODE 11ES2-NTA1B	
D1023	8-719-012-37	DIODE UZ-30BS-TA	
D1059	8-719-987-63	DIODE 1N4148M	
D1069	8-719-987-63	DIODE 1N4148M	
D1204	8-719-987-63	DIODE 1N4148M	
D1205	8-719-987-63	DIODE 1N4148M	
D1230	8-719-987-63	DIODE 1N4148M	
D1250	8-719-028-23	DIODE D3SBA20-4101	(H771:AEP, UK, G, IT, EE, CIS)
D1250	8-719-510-68	DIODE D5SBA20F01	(H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH/H771D)
D1309	8-719-987-63	DIODE 1N4148M	
D1310	8-719-987-63	DIODE 1N4148M	
		< FUSE HOLDER >	
FH1001	1-533-217-31	HOLDER, FUSE	
FH1002	1-533-217-31	HOLDER, FUSE	
FH1003	1-533-217-31	HOLDER, FUSE	
FH1004	1-533-217-31	HOLDER, FUSE	
		< IC >	
IC401	8-759-289-38	IC HA12195NT	
IC402	8-759-822-09	IC LB1641	
IC701	8-759-392-42	IC TMP87CS64YF-6397	
IC702	8-759-165-80	IC PST600C-T	
IC802	8-759-000-48	IC MC14052BCP	
IC901	8-759-331-39	IC M62427FP	
IC902	8-759-634-51	IC M5218AP	
IC1001	8-759-231-53	IC TA7805S	
IC1002	8-759-604-86	IC M5F7807L	
IC1003	8-759-604-86	IC M5F7807L	
IC1004	8-759-604-90	IC M5F7907L	
IC1202	8-759-111-68	IC uPC1237HA	
		< JACK >	
J801	1-695-188-31	JACK, PIN 4P (VIDEO/MD)	(EXCEPT H771:US, CND)
J801	1-695-188-31	JACK, PIN 4P (100CD/VIDEO)	(H771:US, CND)
J1201	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	(H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH)
		< COIL >	
L1201	1-420-872-00	COIL, AIR-CORE	(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
L1251	1-420-872-00	COIL, AIR-CORE	(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)

MAIN

< TRANSISTOR >

Ref. No.	Part No.	Description		Remark
Q301	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q402	8-729-900-65	TRANSISTOR	DTA144ES	
Q403	8-729-801-93	TRANSISTOR	2SD1387	
Q406	8-729-900-80	TRANSISTOR	DTC114ES	
Q407	8-729-422-57	TRANSISTOR	UN4111	
Q408	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q409	8-729-900-80	TRANSISTOR	DTC114ES	
Q410	8-729-900-65	TRANSISTOR	DTA144ES	
Q411	8-729-900-65	TRANSISTOR	DTA144ES	
Q412	8-729-900-65	TRANSISTOR	DTA144ES	
Q701	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q820	8-729-422-57	TRANSISTOR	UN4111	
Q821	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q871	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q901	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q902	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q951	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q952	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q953	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q954	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q1001	8-729-118-01	TRANSISTOR	2SB1116	
Q1002	8-729-900-36	TRANSISTOR	DTC124ES	
Q1003	8-729-030-18	TRANSISTOR	2SD2525	
Q1006	8-729-030-19	TRANSISTOR	2SB1640	
Q1204	8-729-900-63	TRANSISTOR	DTA124ES	
Q1205	8-729-900-36	TRANSISTOR	DTC124ES	
Q1206	8-729-900-80	TRANSISTOR	DTC114ES	
Q1207	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q1208	8-729-119-76	TRANSISTOR	2SA1175-HFE	

< RESISTOR >

Ref. No.	Part No.	Description				Remark
R201	1-249-415-11	CARBON	680	5%	1/4W	F
R202	1-249-435-11	CARBON	33K	5%	1/4W	
R203	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R206	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R207	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R208	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R251	1-249-415-11	CARBON	680	5%	1/4W	F
R252	1-249-435-11	CARBON	33K	5%	1/4W	
R301	1-249-430-11	CARBON	12K	5%	1/4W	
R302	1-249-431-11	CARBON	15K	5%	1/4W	
R303	1-249-432-11	CARBON	18K	5%	1/4W	
R304	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R305	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R306	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R307	1-249-433-11	CARBON	22K	5%	1/4W	
R308	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R309	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R310	1-249-417-11	CARBON	1K	5%	1/4W	F
R351	1-249-430-11	CARBON	12K	5%	1/4W	
R352	1-249-431-11	CARBON	15K	5%	1/4W	
R354	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R355	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R356	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R357	1-249-433-11	CARBON	22K	5%	1/4W	
R358	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R359	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R360	1-249-417-11	CARBON	1K	5%	1/4W	F
R401	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R402	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R403	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R404	1-249-417-11	CARBON	1K	5%	1/4W	F
R405	1-249-437-11	CARBON	47K	5%	1/4W	
R406	1-249-437-11	CARBON	47K	5%	1/4W	
R407	1-249-437-11	CARBON	47K	5%	1/4W	
R408	1-249-437-11	CARBON	47K	5%	1/4W	
R409	1-249-429-11	CARBON	10K	5%	1/4W	
R410	1-247-882-11	CARBON	130K	5%	1/4W	
R411	1-247-866-11	CARBON	30K	5%	1/4W	
R412	1-249-429-11	CARBON	10K	5%	1/4W	
R413	1-247-864-11	CARBON	24K	5%	1/4W	
R414	1-249-429-11	CARBON	10K	5%	1/4W	
R415	1-249-429-11	CARBON	10K	5%	1/4W	
R416	1-249-429-11	CARBON	10K	5%	1/4W	
R417	1-249-429-11	CARBON	10K	5%	1/4W	
R418	1-249-429-11	CARBON	10K	5%	1/4W	
R419	1-249-429-11	CARBON	10K	5%	1/4W	
R420	1-249-429-11	CARBON	10K	5%	1/4W	
R421	1-249-429-11	CARBON	10K	5%	1/4W	
R454	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R455	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R456	1-249-411-11	CARBON	330	5%	1/4W	
R457	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R458	1-249-429-11	CARBON	10K	5%	1/4W	
R461	1-249-417-11	CARBON	1K	5%	1/4W	F
R701	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-437-11	CARBON	47K	5%	1/4W	
R703	1-249-437-11	CARBON	47K	5%	1/4W	
R704	1-249-429-11	CARBON	10K	5%	1/4W	
R705	1-249-429-11	CARBON	10K	5%	1/4W	
R708	1-249-429-11	CARBON	10K	5%	1/4W	
R709	1-249-429-11	CARBON	10K	5%	1/4W	
R710	1-249-429-11	CARBON	10K	5%	1/4W	
R711	1-249-429-11	CARBON	10K	5%	1/4W	
R712	1-249-429-11	CARBON	10K	5%	1/4W	
R713	1-249-429-11	CARBON	10K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R714	1-249-429-11	CARBON	10K	5%	1/4W	
R715	1-249-429-11	CARBON	10K	5%	1/4W	
R716	1-247-807-31	CARBON	100	5%	1/4W	
R717	1-247-807-31	CARBON	100	5%	1/4W	
R718	1-247-807-31	CARBON	100	5%	1/4W	
R719	1-247-807-31	CARBON	100	5%	1/4W	
R720	1-247-807-31	CARBON	100	5%	1/4W	
R721	1-247-807-31	CARBON	100	5%	1/4W	
R724	1-247-807-31	CARBON	100	5%	1/4W	
R725	1-247-807-31	CARBON	100	5%	1/4W	
R726	1-247-807-31	CARBON	100	5%	1/4W	
R727	1-247-807-31	CARBON	100	5%	1/4W	
R728	1-247-807-31	CARBON	100	5%	1/4W	
R729	1-247-807-31	CARBON	100	5%	1/4W	
R730	1-247-807-31	CARBON	100	5%	1/4W	
R731	1-247-807-31	CARBON	100	5%	1/4W	
R732	1-247-807-31	CARBON	100	5%	1/4W	
R733	1-247-807-31	CARBON	100	5%	1/4W	
R734	1-247-807-31	CARBON	100	5%	1/4W	
R735	1-247-807-31	CARBON	100	5%	1/4W	
R736	1-247-807-31	CARBON	100	5%	1/4W	
R737	1-247-807-31	CARBON	100	5%	1/4W	
R738	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R739	1-249-433-11	CARBON	22K	5%	1/4W	
R740	1-249-423-11	CARBON	3.3K	5%	1/4W	F (H771:AUS)
R740	1-249-425-11	CARBON	4.7K	5%	1/4W	F (H771:E2, MX, AR, TH)
R740	1-249-427-11	CARBON	6.8K	5%	1/4W	F (H771:G, IT/H771D)
R740	1-249-429-11	CARBON	10K	5%	1/4W	(H771:AEP, UK)
R740	1-249-433-11	CARBON	22K	5%	1/4W	(H771:CIS)
R740	1-249-435-11	CARBON	33K	5%	1/4W	(H771:EE)
R741	1-249-421-11	CARBON	2.2K	5%	1/4W	F (H771:CIS)
R741	1-249-423-11	CARBON	3.3K	5%	1/4W	F (H771:AEP, UK, G, IT)
R741	1-249-425-11	CARBON	4.7K	5%	1/4W	F (H771D)
R741	1-249-427-11	CARBON	6.8K	5%	1/4W	F (H771:E2, EE, MX, AR, TH)
R741	1-249-429-11	CARBON	10K	5%	1/4W	(H771:AUS)
R742	1-247-807-31	CARBON	100	5%	1/4W	
R743	1-247-807-31	CARBON	100	5%	1/4W	
R744	1-247-807-31	CARBON	100	5%	1/4W	
R745	1-247-807-31	CARBON	100	5%	1/4W	
R746	1-249-429-11	CARBON	10K	5%	1/4W	
R747	1-249-429-11	CARBON	10K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R748	1-249-429-11	CARBON	10K	5%	1/4W	
R749	1-249-429-11	CARBON	10K	5%	1/4W	
R750	1-247-807-31	CARBON	100	5%	1/4W	
R751	1-247-807-31	CARBON	100	5%	1/4W	
R752	1-247-807-31	CARBON	100	5%	1/4W	
R753	1-247-807-31	CARBON	100	5%	1/4W	
R756	1-249-429-11	CARBON	10K	5%	1/4W	
R757	1-247-807-31	CARBON	100	5%	1/4W	
R758	1-247-807-31	CARBON	100	5%	1/4W	
R759	1-247-807-31	CARBON	100	5%	1/4W	
R760	1-247-807-31	CARBON	100	5%	1/4W	
R761	1-247-807-31	CARBON	100	5%	1/4W	
R762	1-249-429-11	CARBON	10K	5%	1/4W	
R763	1-249-429-11	CARBON	10K	5%	1/4W	
R764	1-249-429-11	CARBON	10K	5%	1/4W	
R821	1-249-423-11	CARBON	3.3K	5%	1/4W	
R822	1-249-427-11	CARBON	6.8K	5%	1/4W	
R823	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R824	1-249-429-11	CARBON	10K	5%	1/4W	
R826	1-249-441-11	CARBON	100K	5%	1/4W	
R829	1-249-421-11	CARBON	2.2K	5%	1/4W	
R831	1-249-417-11	CARBON	1K	5%	1/4W	
R832	1-249-441-11	CARBON	100K	5%	1/4W	
R871	1-249-423-11	CARBON	3.3K	5%	1/4W	
R872	1-249-427-11	CARBON	6.8K	5%	1/4W	
R873	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R874	1-249-429-11	CARBON	10K	5%	1/4W	
R875	1-249-429-11	CARBON	10K	5%	1/4W	
R876	1-249-441-11	CARBON	100K	5%	1/4W	
R877	1-247-887-00	CARBON	220K	5%	1/4W	
R881	1-249-417-11	CARBON	1K	5%	1/4W	
R882	1-249-441-11	CARBON	100K	5%	1/4W	
R901	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R902	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R903	1-249-437-11	CARBON	47K	5%	1/4W	
R905	1-249-441-11	CARBON	100K	5%	1/4W	
R906	1-247-895-00	CARBON	470K	5%	1/4W	
R907	1-247-883-00	CARBON	150K	5%	1/4W	
R908	1-249-433-11	CARBON	22K	5%	1/4W	
R909	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R910	1-249-429-11	CARBON	10K	5%	1/4W	
R911	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R912	1-249-441-11	CARBON	100K	5%	1/4W	
R913	1-249-429-11	CARBON	10K	5%	1/4W	
R914	1-249-437-11	CARBON	47K	5%	1/4W	
R915	1-249-441-11	CARBON	100K	5%	1/4W	
R916	1-249-441-11	CARBON	100K	5%	1/4W	
R917	1-247-903-00	CARBON	1M	5%	1/4W	
R918	1-249-431-11	CARBON	15K	5%	1/4W	
R920	1-249-441-11	CARBON	100K	5%	1/4W	

MAIN

Ref.No.	Part No.	Description	Remark
R930	1-249-429-11	CARBON 10K 5% 1/4W	
R931	1-249-429-11	CARBON 10K 5% 1/4W	
R932	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R933	1-247-895-00	CARBON 470K 5% 1/4W	
R935	1-249-437-11	CARBON 47K 5% 1/4W	
R938	1-247-807-31	CARBON 100 5% 1/4W	
R940	1-249-429-11	CARBON 10K 5% 1/4W	
R941	1-249-429-11	CARBON 10K 5% 1/4W	
R942	1-249-429-11	CARBON 10K 5% 1/4W	
R945	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R951	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R952	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R953	1-249-437-11	CARBON 47K 5% 1/4W	
R955	1-249-441-11	CARBON 100K 5% 1/4W	
R956	1-247-895-00	CARBON 470K 5% 1/4W	
R957	1-247-883-00	CARBON 150K 5% 1/4W	
R958	1-249-433-11	CARBON 22K 5% 1/4W	
R959	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R960	1-249-429-11	CARBON 10K 5% 1/4W	
R961	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R962	1-249-441-11	CARBON 100K 5% 1/4W	
R963	1-249-429-11	CARBON 10K 5% 1/4W	
R964	1-249-437-11	CARBON 47K 5% 1/4W	
R965	1-249-441-11	CARBON 100K 5% 1/4W	
R966	1-249-441-11	CARBON 100K 5% 1/4W	
R967	1-247-903-00	CARBON 1M 5% 1/4W	
R968	1-249-431-11	CARBON 15K 5% 1/4W	
R970	1-247-903-00	CARBON 1M 5% 1/4W	
R1001	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R1002	1-247-815-91	CARBON 220 5% 1/4W	
R1002	1-249-409-11	CARBON 220 5% 1/4W	F
R1003	1-249-417-11	CARBON 1K 5% 1/4W	F
R1007	1-249-417-11	CARBON 1K 5% 1/4W	F
R1020	1-249-409-11	CARBON 220 5% 1/4W	F
R1021	1-249-409-11	CARBON 220 5% 1/4W	F
R1022	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R1023	1-249-417-11	CARBON 1K 5% 1/4W	F
R1220	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1221	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1222	1-260-091-11	CARBON 220 5% 1/2W	
R1223	1-260-091-11	CARBON 220 5% 1/2W	
⚠R1226	1-215-891-11	METAL OXIDE 680 5% 2W	F
		(H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)	
⚠R1226	1-216-454-11	METAL OXIDE 390 5% 2W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1231	1-249-437-11	CARBON 47K 5% 1/4W	
R1233	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R1234	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R1235	1-249-435-11	CARBON 33K 5% 1/4W	
R1236	1-249-441-11	CARBON 100K 5% 1/4W	
R1237	1-249-429-11	CARBON 10K 5% 1/4W	
R1238	1-249-417-11	CARBON 1K 5% 1/4W	
R1240	1-249-438-11	CARBON 56K 5% 1/4W	
R1241	1-249-397-11	CARBON 22 5% 1/4W	F
R1245	1-249-433-11	CARBON 22K 5% 1/4W	
R1248	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1249	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1250	1-249-429-11	CARBON 10K 5% 1/4W	
R1264	1-249-429-11	CARBON 10K 5% 1/4W	
R1265	1-249-429-11	CARBON 10K 5% 1/4W	
R1266	1-249-429-11	CARBON 10K 5% 1/4W	
R1267	1-249-429-11	CARBON 10K 5% 1/4W	
R1270	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1271	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1272	1-260-091-11	CARBON 220 5% 1/2W	
R1273	1-260-091-11	CARBON 220 5% 1/2W	
R1281	1-249-437-11	CARBON 47K 5% 1/4W	
R1290	1-249-437-11	CARBON 47K 5% 1/4W	
R1295	1-249-433-11	CARBON 22K 5% 1/4W	
R1296	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R1298	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1299	1-249-389-11	CARBON 4.7 5% 1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)	
R1303	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R1304	1-249-425-11	CARBON 4.7K 5% 1/4W	F
⚠R1601	1-219-139-11	FUSIBLE 0.68 5% 1/4W	F
⚠R1602	1-219-136-11	FUSIBLE 0.22 5% 1/4W	F
⚠R1603	1-219-136-11	FUSIBLE 0.22 5% 1/4W	F
		< VARIABLE RESISTOR >	
RV301	1-238-600-11	RES, ADJ, CARBON 10K	
RV351	1-238-600-11	RES, ADJ, CARBON 10K	
		< RELAY >	
RY1201	1-515-920-11	RELAY (24V)	
		< TERMINAL >	
TM1201	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)	
TM1202	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SURROUND SPEAKER) (H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH)	
		< VIBRATOR >	
X701	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	

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Ref. No.	Part No.	Description				Remark
X702	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)				
**						
*	A-2007-435-A	MD BOARD, COMPLETE ******************				
		< CAPACITOR >				
C301	1-162-289-31	CERAMIC	390PF	10%	50V	
C302	1-126-968-11	ELECT	100uF	20%	6.3V	
C303	1-162-282-31	CERAMIC	100PF	10%	50V	
C304	1-107-715-11	ELECT	22uF	20%	16V	
C304	1-130-483-00	MYLAR	0.01uF	5%	50V	
C305	1-107-715-11	ELECT	22uF	20%	16V	
C311	1-162-289-31	CERAMIC	390PF	10%	50V	
C313	1-162-282-31	CERAMIC	100PF	10%	50V	
C314	1-130-487-00	MYLAR	0.022uF	5%	50V	
C315	1-126-233-11	ELECT	22uF	20%	50V	
C331	1-137-427-11	FILM	120PF	5%	50V	
C332	1-162-288-31	CERAMIC	330PF	10%	50V	
C333	1-162-209-31	CERAMIC	27PF	5%	50V	
C401	1-162-289-31	CERAMIC	390PF	10%	50V	
C402	1-126-968-11	ELECT	100uF	20%	6.3V	
C403	1-162-282-31	CERAMIC	100PF	10%	50V	
C404	1-130-483-00	MYLAR	0.01uF	5%	50V	
C411	1-162-289-31	CERAMIC	390PF	10%	50V	
C413	1-162-282-31	CERAMIC	100PF	10%	50V	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V	
C415	1-126-233-11	ELECT	22uF	20%	50V	
C431	1-137-427-11	FILM	120PF	5%	50V	
C432	1-162-288-31	CERAMIC	330PF	10%	50V	
C433	1-162-209-31	CERAMIC	27PF	5%	50V	
C601	1-126-157-11	ELECT	10uF	20%	16V	
C602	1-126-157-11	ELECT	10uF	20%	16V	
C611	1-124-907-11	ELECT	10uF	20%	50V	
C612	1-124-907-11	ELECT	10uF	20%	50V	
C621	1-137-150-11	FILM	0.01uF	5%	100V	
C622	1-126-961-11	ELECT	2.2uF	20%	50V	
C623	1-136-155-00	FILM	0.015uF	5%	50V	
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C627	1-124-903-11	ELECT	1uF	20%	50V	
C628	1-136-153-00	FILM	0.01uF	5%	50V	
C642	1-104-664-11	ELECT	47uF	20%	16V	
C651	1-161-494-00	CERAMIC	0.022uF		25V	
		< CONNECTOR >				
* CN601	1-568-864-11	SOCKET, CONNECTOR 21P				
* CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				
* CN651	1-564-521-11	PLUG, CONNECTOR 6P				

Ref. No.	Part No.	Description				Remark
		< IC >				
IC601	8-759-710-59	IC	NJM4580D-D			
IC602	8-759-143-54	IC	uPC1330HA			
IC611	8-759-710-59	IC	NJM4580D-D			
		< COIL >				
L331	1-410-780-11	INDUCTOR	27mH			
L431	1-410-780-11	INDUCTOR	27mH			
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR	2SC2001-LK			
Q622	8-729-142-46	TRANSISTOR	2SC2001-LK			
Q623	8-729-801-93	TRANSISTOR	2SD1387			
Q651	8-729-900-65	TRANSISTOR	DTA144ES			
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	F
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	F
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R608	1-249-409-11	CARBON	220	5%	1/4W	F
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	F
R612	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-247-856-00	CARBON	11K	5%	1/4W	
R652	1-247-856-00	CARBON	11K	5%	1/4W	
R653	1-249-441-11	CARBON	100K	5%	1/4W	

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MD | MOTOR (SLIDE) | MOTOR (TURN) | PANEL

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV341	1-238-551-11	RES, ADJ, CARBON 220K	
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K	
RV441	1-238-551-11	RES, ADJ, CARBON 220K	
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K	
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K	
		< TRANSFORMER >	
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	
**			
*	1-658-578-12	MOTOR (SLIDE) BOARD *******************	
		< CAPACITOR >	
C801	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C804	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C805	1-126-964-11	ELECT 10uF 20% 50V	
		< CONNECTOR >	
* CN801	1-568-947-11	PIN, CONNECTOR 9P	
		< DIODE >	
D801	8-719-010-43	DIODE UZ-5.6BSC-TA	
		< IC >	
IC801	8-759-274-09	IC BA6286N	
		< RESISTOR >	
R801	1-249-401-11	CARBON 47 5% 1/4W	F
		< SWITCH >	
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE DET)	
**			
*	1-658-577-11	MOTOR (TURN) BOARD ******************	
		< CAPACITOR >	
C701	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C702	1-126-964-11	ELECT 10uF 20% 50V	
C705	1-162-306-11	CERAMIC 0.01uF 30% 16V	
		< CONNECTOR >	
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P	
CN704	1-506-469-11	PIN, CONNECTOR 4P	
		< DIODE >	
D701	8-719-010-23	DIODE UZ-3.6BSB	
		< IC >	
IC701	8-759-633-65	IC M54641L	
		< RESISTOR >	
R706	1-249-411-11	CARBON 330 5% 1/4W	
**			
*	A-4389-153-A	PANEL BOARD, COMPLETE ******************** (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
*	A-4389-154-A	PANEL BOARD, COMPLETE ******************** (H771:E3, EA, MY, HK, SP)	
*	A-4389-416-A	PANEL BOARD, COMPLETE ******************** (H771:E2, AUS, CIS, MX, AR)	
*	A-4389-770-A	PANEL BOARD, COMPLETE (H771:TH) ******************************	
*	4-932-810-11	CUSHION (FL)	
*	4-971-014-11	HOLDER, FL TUBE	
		< CAPACITOR >	
C500	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C501	1-124-589-11	ELECT 47uF 20% 16V	
C502	1-162-282-31	CERAMIC 100PF 10% 50V	
C504	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C505	1-124-589-11	ELECT 47uF 20% 16V	
C510	1-162-286-31	CERAMIC 220PF 10% 50V	
C511	1-162-286-31	CERAMIC 220PF 10% 50V	
C512	1-162-286-31	CERAMIC 220PF 10% 50V	
C513	1-162-286-31	CERAMIC 220PF 10% 50V	
C514	1-162-286-31	CERAMIC 220PF 10% 50V	
C515	1-162-286-31	CERAMIC 220PF 10% 50V	
C516	1-162-286-31	CERAMIC 220PF 10% 50V	
C517	1-162-286-31	CERAMIC 220PF 10% 50V	
C518	1-162-286-31	CERAMIC 220PF 10% 50V	
C519	1-162-286-31	CERAMIC 220PF 10% 50V	
C520	1-162-286-31	CERAMIC 220PF 10% 50V	
C521	1-162-286-31	CERAMIC 220PF 10% 50V	
C522	1-162-286-31	CERAMIC 220PF 10% 50V	

Ref. No.	Part No.	Description	Remark
C523	1-162-286-31	CERAMIC 220PF 10% 50V	
C539	1-162-293-31	CERAMIC 820PF 10% 50V	
C540	1-124-464-11	ELECT 0.22uF 20% 50V	
C641	1-124-589-11	ELECT 47uF 20% 16V	
		< CONNECTOR >	
* CN500	1-568-856-11	SOCKET, CONNECTOR 13P	
		< DIODE >	
D500	8-719-032-87	DIODE SEL5420E-TP15 (TUNER/BAND)	
D501	8-719-033-06	DIODE SEL5920A (CLIP C)	
D503	8-719-033-06	DIODE SEL5920A (CLIP B)	
D505	8-719-033-06	DIODE SEL5920A (CLIP A)	
D506	8-719-033-06	DIODE SEL5920A (GROOVE)	
D507	8-719-812-44	DIODE TL0124 (EFFECT ON/OFF)	
D523	8-719-032-87	DIODE SEL5420E-TP15 (◁)(DECK B)	
D524	8-719-032-87	DIODE SEL5420E-TP15 (▷)(DECK B)	
D525	8-719-812-44	DIODE TL0124 (● REC)	
D526	8-719-057-97	DIODE SEL5923A-TP15 (❚❚ PAUSE)	
D527	8-719-032-87	DIODE SEL5420E-TP15 (◁)(DECK A)	
D528	8-719-032-87	DIODE SEL5420E-TP15 (▷)(DECK A)	
D529	8-719-057-97	DIODE SEL5923A-TP15 (CD)	
D531	8-719-057-97	DIODE SEL5923A-TP15 (1/ALL DISCS)	
D533	8-719-057-97	DIODE SEL5923A-TP15 (PLAY MODE)	
D535	8-719-057-97	DIODE SEL5923A-TP15 (REPEAT)	
D537	8-719-057-97	DIODE SEL5923A-TP15 (EDIT)	
D539	8-719-057-97	DIODE SEL5923A-TP15 (TUNER)	
D541	8-719-057-97	DIODE SEL5923A-TP15 (TUNING MODE)	
D543	8-719-057-97	DIODE SEL5923A-TP15 (TUNER MEMORY)	
D545	8-719-057-97	DIODE SEL5923A-TP15 (STEREO)	
D547	8-719-057-97	DIODE SEL5923A-TP15 (MONO)	
D549	8-719-057-97	DIODE SEL5923A-TP15 (TIMER)	
D551	8-719-057-97	DIODE SEL5923A-TP15 (CLOCK SET)	
D553	8-719-057-97	DIODE SEL5923A-TP15 (SET)	
D555	8-719-057-97	DIODE SEL5923A-TP15 (SELECT)	
D557	8-719-057-97	DIODE SEL5923A-TP15 (SLEEP)	
D563	8-719-987-63	DIODE 1N4148M	
		< FLUORESCENT INDICATOR >	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC500	8-759-375-43	IC ASD0204-012-3BA	
IC501	8-759-332-18	IC GP1U27XB (🅁)	
		< TRANSISTOR >	
Q500	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q501	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q502	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q506	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q514	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q515	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q516	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q517	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q518	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q519	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q523	8-729-900-74	TRANSISTOR DTC143TS	
		< RESISTOR >	
R500	1-249-429-11	CARBON 10K 5% 1/4W	
R501	1-247-903-00	CARBON 1M 5% 1/4W	
R502	1-249-429-11	CARBON 10K 5% 1/4W	
R503	1-249-429-11	CARBON 10K 5% 1/4W	
R504	1-249-429-11	CARBON 10K 5% 1/4W	
R505	1-249-429-11	CARBON 10K 5% 1/4W	
R506	1-249-429-11	CARBON 10K 5% 1/4W	
R507	1-249-429-11	CARBON 10K 5% 1/4W	
R508	1-249-429-11	CARBON 10K 5% 1/4W	
R509	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R510	1-247-807-31	CARBON 100 5% 1/4W	
R511	1-247-807-31	CARBON 100 5% 1/4W	
R512	1-247-807-31	CARBON 100 5% 1/4W	
R513	1-247-807-31	CARBON 100 5% 1/4W	
R514	1-247-807-31	CARBON 100 5% 1/4W	
R515	1-247-807-31	CARBON 100 5% 1/4W	
R516	1-249-441-11	CARBON 100K 5% 1/4W	
R517	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R526	1-249-415-11	CARBON 680 5% 1/4W	F
R529	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R530	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R531	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R532	1-249-431-11	CARBON 15K 5% 1/4W	
R533	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R534	1-249-401-11	CARBON 47 5% 1/4W	F
R535	1-249-403-11	CARBON 68 5% 1/4W	F
R536	1-247-807-31	CARBON 100 5% 1/4W	
R537	1-249-407-11	CARBON 150 5% 1/4W	F
R538	1-249-407-11	CARBON 150 5% 1/4W	F
R539	1-249-409-11	CARBON 220 5% 1/4W	F
R540	1-249-411-11	CARBON 330 5% 1/4W	
R547	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R548	1-249-401-11	CARBON 47 5% 1/4W	F
R549	1-249-403-11	CARBON 68 5% 1/4W	F
R550	1-247-807-31	CARBON 100 5% 1/4W	
R551	1-249-407-11	CARBON 150 5% 1/4W	F
R552	1-249-407-11	CARBON 150 5% 1/4W	F

PANEL

Ref. No.	Part No.	Description	Remark
R553	1-249-409-11	CARBON 220 5% 1/4W	F
R554	1-249-411-11	CARBON 330 5% 1/4W	
R555	1-249-413-11	CARBON 470 5% 1/4W	F
R556	1-249-415-11	CARBON 680 5% 1/4W	F
R557	1-249-417-11	CARBON 1K 5% 1/4W	F
R558	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R559	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R560	1-249-423-11	CARBON 10K 5% 1/4W	F
R562	1-249-431-11	CARBON 15K 5% 1/4W	
R563	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R564	1-249-401-11	CARBON 47 5% 1/4W	F
R565	1-249-413-11	CARBON 470 5% 1/4W	F
R566	1-249-409-11	CARBON 220 5% 1/4W	F
R567	1-249-411-11	CARBON 330 5% 1/4W	
R568	1-249-413-11	CARBON 470 5% 1/4W	F
R569	1-249-415-11	CARBON 680 5% 1/4W	F
R570	1-249-417-11	CARBON 1K 5% 1/4W	F
R571	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R572	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R573	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R574	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R575	1-249-437-11	CARBON 47K 5% 1/4W	
R576	1-249-429-11	CARBON 10K 5% 1/4W	
R577	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R578	1-249-429-11	CARBON 10K 5% 1/4W	
R579	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R580	1-247-807-31	CARBON 100 5% 1/4W	
R581	1-249-407-11	CARBON 150 5% 1/4W	F
R583	1-249-407-11	CARBON 150 5% 1/4W	F
R585	1-249-407-11	CARBON 150 5% 1/4W	F
R586	1-247-807-31	CARBON 100 5% 1/4W	
R587	1-249-407-11	CARBON 150 5% 1/4W	F
R610	1-247-807-31	CARBON 100 5% 1/4W	
R611	1-247-807-31	CARBON 100 5% 1/4W	
R612	1-249-407-11	CARBON 150 5% 1/4W	F
R613	1-249-407-11	CARBON 150 5% 1/4W	F
R614	1-247-807-31	CARBON 100 5% 1/4W	
R615	1-247-807-31	CARBON 100 5% 1/4W	
R616	1-247-807-31	CARBON 100 5% 1/4W	
R617	1-247-807-31	CARBON 100 5% 1/4W	
R618	1-247-807-31	CARBON 100 5% 1/4W	
R619	1-247-807-31	CARBON 100 5% 1/4W	
R620	1-247-807-31	CARBON 100 5% 1/4W	
R621	1-247-807-31	CARBON 100 5% 1/4W	
R622	1-247-807-31	CARBON 100 5% 1/4W	
R623	1-247-807-31	CARBON 100 5% 1/4W	
R624	1-247-807-31	CARBON 100 5% 1/4W	
R625	1-247-807-31	CARBON 100 5% 1/4W	
R626	1-247-807-31	CARBON 100 5% 1/4W	
R627	1-247-807-31	CARBON 100 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R628	1-247-807-31	CARBON 100 5% 1/4W	
R629	1-247-807-31	CARBON 100 5% 1/4W	
R630	1-247-807-31	CARBON 100 5% 1/4W	
R634	1-247-899-11	CARBON 680K 5% 1/4W	
R646	1-249-417-11	CARBON 1K 5% 1/4W	F
R647	1-249-417-11	CARBON 1K 5% 1/4W	F
R648	1-249-417-11	CARBON 1K 5% 1/4W	F
R649	1-249-401-11	CARBON 47 5% 1/4W	F
R650	1-249-429-11	CARBON 10K 5% 1/4W	
R651	1-249-429-11	CARBON 10K 5% 1/4W	
R652	1-249-429-11	CARBON 10K 5% 1/4W	
R662	1-249-437-11	CARBON 47K 5% 1/4W	
R663	1-247-895-00	CARBON 470K 5% 1/4W	
R664	1-249-441-11	CARBON 100K 5% 1/4W	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S509	1-554-303-21	SWITCH, TACTILE (TIMER)	
S512	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 1)	
S513	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 2)	
S514	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 3)	
S515	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 4)	
S517	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S519	1-554-303-21	SWITCH, TACTILE (CLIP PLAY)	
S520	1-554-303-21	SWITCH, TACTILE (CLIP ERASE)	
S521	1-554-303-21	SWITCH, TACTILE (CLIP A)	
S522	1-554-303-21	SWITCH, TACTILE (CLIP B)	
S523	1-554-303-21	SWITCH, TACTILE (CLIP C)	
S530	1-554-303-21	SWITCH, TACTILE (SURROUND)	
S531	1-554-303-21	SWITCH, TACTILE (MENU 1)	
S532	1-554-303-21	SWITCH, TACTILE (MENU 2)	
S533	1-554-303-21	SWITCH, TACTILE (MENU 3)	
S534	1-554-303-21	SWITCH, TACTILE (P FILE)	
S535	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)	
S536	1-554-303-21	SWITCH, TACTILE (▷) (DECK B)	
S537	1-554-303-21	SWITCH, TACTILE (◁) (DECK B)	
S538	1-554-303-21	SWITCH, TACTILE (▶▶) (DECK B)	
S539	1-554-303-21	SWITCH, TACTILE (■) (DECK B)	
S540	1-554-303-21	SWITCH, TACTILE (◀◀) (DECK B)	
S541	1-554-303-21	SWITCH, TACTILE (❚❚ PAUSE)	
S542	1-554-303-21	SWITCH, TACTILE (● REC)	
S544	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO)	
S545	1-554-303-21	SWITCH, TACTILE (HIGH SPEED DUBBING)	
S551	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)	
S552	1-554-303-21	SWITCH, TACTILE (FUNCTION)	
S553	1-554-303-21	SWITCH, TACTILE (GROOVE)	
S554	1-554-303-21	SWITCH, TACTILE (DIRECTION)	

Ref. No.	Part No.	Description				Remark
S555	1-554-303-21	SWITCH, TACTILE (DOLBY NR)				
S556	1-554-303-21	SWITCH, TACTILE (▶▶)(DECK A)				
S557	1-554-303-21	SWITCH, TACTILE (■)(DECK A)				
S558	1-554-303-21	SWITCH, TACTILE (◀◀)(DECK A)				
S559	1-554-303-21	SWITCH, TACTILE (▷)(DECK A)				
S560	1-554-303-21	SWITCH, TACTILE (◁)(DECK A)				
		< VIBRATOR >				
X500	1-760-489-11	VIBRATOR, CERAMIC (5MHz)				

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* A-4377-454-A POLAR BOARD, COMPLETE (H771:CIS)

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		< CAPACITOR >				
C1701	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C1702	1-130-014-00	FILM	470PF	5%	50V	
C1703	1-124-902-00	ELECT	0.47uF	20%	50V	
C1704	1-124-902-00	ELECT	0.47uF	20%	50V	
C1705	1-164-098-11	CERAMIC	0.047uF		12V	
C1706	1-124-903-11	ELECT	1uF	20%	50V	
C1707	1-162-288-31	CERAMIC	330PF	10%	50V	
C1710	1-137-364-11	FILM	0.001uF	5%	50V	
C1711	1-137-364-11	FILM	0.001uF	5%	50V	
C1712	1-130-736-11	FILM	0.01uF	5%	50V	
C1713	1-130-736-11	FILM	0.01uF	5%	50V	
C1714	1-124-903-11	ELECT	1uF	20%	50V	
C1715	1-124-903-11	ELECT	1uF	20%	50V	
C1716	1-124-903-11	ELECT	1uF	20%	50V	
C1719	1-104-664-11	ELECT	47uF	20%	16V	
C1720	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1723	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1724	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1725	1-104-664-11	ELECT	47uF	20%	16V	
C1726	1-124-903-11	ELECT	1uF	20%	50V	
C1727	1-124-903-11	ELECT	1uF	20%	50V	
C1728	1-104-663-11	ELECT	33uF	20%	16V	
		< CONNECTOR >				
* CN1701	1-568-832-11	SOCKET, CONNECTOR	13P			
		< TRIMMER >				
CT1701	1-141-260-00	CAP, TRIMMER	50PF			
		< DIODE >				
D1701	8-719-987-63	DIODE	1N4148M			
D1703	8-719-987-63	DIODE	1N4148M			
D1704	8-719-987-63	DIODE	1N4148M			
D1705	8-719-987-63	DIODE	1N4148M			

Ref. No.	Part No.	Description				Remark
		< IC >				
IC1701	8-759-063-04	IC	IR3R42			
IC1703	8-759-140-53	IC	uPD4053BC			
		< COIL >				
L1701	1-409-497-11	COIL (FILTER)				
		< TRANSISTOR >				
Q1701	8-729-900-61	TRANSISTOR	DTA114ES			
Q1702	8-729-900-80	TRANSISTOR	DTC114ES			
Q1704	8-729-900-80	TRANSISTOR	DTC114ES			
		< RESISTOR >				
R1701	1-249-433-11	CARBON	22K	5%	1/4W	
R1702	1-249-435-11	CARBON	33K	5%	1/4W	
R1703	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R1704	1-247-858-11	CARBON	13K	5%	1/4W	
R1705	1-249-417-11	CARBON	1K	5%	1/4W	F
R1706	1-249-417-11	CARBON	1K	5%	1/4W	F
R1707	1-249-441-11	CARBON	100K	5%	1/4W	
R1708	1-249-440-11	CARBON	82K	5%	1/4W	
R1709	1-249-437-11	CARBON	47K	5%	1/4W	
R1710	1-249-429-11	CARBON	10K	5%	1/4W	
R1711	1-249-429-11	CARBON	10K	5%	1/4W	
R1714	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1715	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1716	1-249-441-11	CARBON	100K	5%	1/4W	
R1717	1-249-441-11	CARBON	100K	5%	1/4W	
R1718	1-249-429-11	CARBON	10K	5%	1/4W	
R1719	1-249-429-11	CARBON	10K	5%	1/4W	
R1721	1-249-434-11	CARBON	27K	5%	1/4W	
R1722	1-249-441-11	CARBON	100K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV1701	1-238-600-11	RES, ADJ, CARBON	10K			
RV1702	1-238-599-11	RES, ADJ, CARBON	4.7K			
		< TEST PIN >				
* TP1701	1-560-061-00	PIN, CONNECTOR	3P			
* TP1702	1-560-061-00	PIN, CONNECTOR	3P			

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TCB

Ref. No.	Part No.	Description	Remark
		< FRONTEND >	
FE1	1-193-385-11	FRONT END (3 GANG)	(H771:EE)
FE1	1-233-542-11	FRONT END (4 GANG)	(H771:AEP, UK, IT, G)
FE2	1-233-514-11	ENCAPSULATED COMPONENT	(H771:AEP, UK, EE)
FE2	1-239-260-11	ENCAPSULATED COMPONENT	(H771:IT, G)
		< IC >	
IC21	8-759-288-54	IC LC72130	
IC41	8-759-176-03	IC LA1835	
		< IFT >	
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JUMPER RESISTOR >	
JR1	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR2	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, EE)
JR3	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR6	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR7	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR8	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, EE)
JR9	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, EE)
JR45	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR46	1-216-296-11	METAL CHIP 0 5% 1/8W	
JR47	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR48	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR49	1-216-296-11	METAL CHIP 0 5% 1/8W	
JR51	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR52	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR53	1-216-296-11	METAL CHIP 0 5% 1/8W	
JR54	1-216-295-91	METAL CHIP 0 5% 1/10W	
		< JUMPER RESISTOR >	
JW4	1-249-413-11	CARBON 470 5% 1/4W	(H771:AEP, UK, IT, G)
JW5	1-249-413-11	CARBON 470 5% 1/4W	(H771:AEP, UK, IT, G)
		< COIL >	
L2	1-414-142-11	MICRO INDUCTOR 1uH	(H771:AEP, UK, IT, G)
L3	1-410-521-11	MICRO INDUCTOR 100uH	
L4	1-410-515-11	INDUCTOR 33uH	(H771:AEP, UK, IT, G)
L41	1-407-500-00	MICRO INDUCTOR 4.7mH	(H771:AEP, UK, EE)
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH	(H771:AEP, UK, IT, G)

Ref. No.	Part No.	Description	Remark
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q5	8-729-422-57	TRANSISTOR UN4111	
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6	(H771:AEP, UK, EE)
Q11	8-729-900-80	TRANSISTOR DTC114ES	
Q12	8-729-900-80	TRANSISTOR DTC114ES	
Q13	8-729-900-80	TRANSISTOR DTC114ES	
Q14	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	
R1	1-249-401-11	CARBON 47 5% 1/4W	F
R2	1-216-037-00	METAL CHIP 330 5% 1/10W	
R3	1-216-037-00	METAL CHIP 330 5% 1/10W	
R5	1-216-037-00	METAL CHIP 330 5% 1/10W	
R6	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-037-00	METAL CHIP 330 5% 1/10W	
R9	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R10	1-216-037-00	METAL CHIP 330 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-037-00	METAL CHIP 330 5% 1/10W	
R13	1-216-037-00	METAL CHIP 330 5% 1/10W	
R14	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R18	1-216-073-00	METAL CHIP 10K 5% 1/10W	(H771:AEP, UK, EE)
R19	1-216-073-00	METAL CHIP 10K 5% 1/10W	(H771:AEP, UK, EE)
R21	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R22	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R23	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R24	1-216-025-91	METAL CHIP 100 5% 1/10W	
R25	1-249-417-11	CARBON 1K 5% 1/4W	F
R26	1-249-437-11	CARBON 47K 5% 1/4W	
R27	1-249-429-11	CARBON 10K 5% 1/4W	
R28	1-249-417-11	CARBON 1K 5% 1/4W	F
R29	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R30	1-216-186-00	METAL CHIP 330 5% 1/8W	
R31	1-216-025-91	METAL CHIP 100 5% 1/10W	
R32	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R33	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R34	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R35	1-216-214-00	METAL CHIP 4.7K 5% 1/8W	
R36	1-216-025-91	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description				Remark
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W	
R39	1-249-429-11	CARBON	10K	5%	1/4W	
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R43	1-216-042-00	METAL CHIP	510	5%	1/10W	
R44	1-216-021-00	METAL CHIP	68	5%	1/10W	
R45	1-249-423-11	CARBON	3.3K	5%	1/4W F	
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W	
R48	1-249-417-11	CARBON	1K	5%	1/4W F	
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-399-11	CARBON	33	5%	1/4W	(H771:AEP,UK,EE)
R55	1-216-162-00	METAL CHIP	33	5%	1/8W	
R56	1-249-393-11	CARBON	10	5%	1/4W F	
R91	1-216-295-91	METAL CHIP	0	5%	1/10W	(H771:AEP,UK,EE)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	(H771:AEP,UK,EE)

< VARIABLE RESISTOR >

Ref. No.	Part No.	Description
RV41	1-238-601-11	RES, ADJ, CARBON 22K
RV42	1-238-600-11	RES, ADJ, CARBON 10K

< TERMINAL >

Ref. No.	Part No.	Description
TM1	1-537-488-11	TERMINAL BOARD (ANT)(ANTENNA)

< VIBRATOR >

Ref. No.	Part No.	Description
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)
X42	1-527-981-00	FILTER, CERAMIC (450kHz)
X43	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)

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* A-4303-517-A TCB BOARD, COMPLETE (H771:CIS)
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< CAPACITOR >

Ref. No.	Part No.	Description				Remark
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	
C3	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C5	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C6	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	
C8	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C9	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C10	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C11	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C14	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C15	1-136-162-00	METALIZED FILM	0.056uF	5%	50V	
C16	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C17	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C18	1-163-088-00	CERAMIC CHIP	5PF		50V	
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C22	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C26	1-126-967-11	ELECT	47uF	20%	50V	
C28	1-126-967-11	ELECT	47uF	20%	50V	
C29	1-162-306-11	CERAMIC	10000PF	20%	16V	
C30	1-124-925-11	ELECT	2.2uF	20%	100V	
C31	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C32	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C33	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C34	1-163-091-00	CERAMIC CHIP	8PF		50V	
C35	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C38	1-162-211-31	CERAMIC	33PF	5%	50V	
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C40	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C41	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C42	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C43	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C44	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C45	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C47	1-126-967-11	ELECT	47uF	20%	50V	
C48	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C49	1-124-902-00	ELECT	0.47uF	20%	50V	
C50	1-124-903-11	ELECT	1.0uF	20%	50V	
C51	1-124-903-11	ELECT	1.0uF	20%	50V	
C52	1-126-964-11	ELECT	10uF	20%	50V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-157-11	ELECT	10uF	20%	16V	
C56	1-126-157-11	ELECT	10uF	20%	16V	
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C61	1-126-301-11	ELECT	1uF	20%	50V	
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C64	1-126-967-11	CAP, ELECT	47uF	20%	50V	
C65	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C66	1-126-162-11	ELECT	3.3uF	20%	50V	
C67	1-126-933-11	ELECT	100uF	20%	16V	

TCB

Ref. No.	Part No.	Description	Remark
C68	1-162-306-11	CERAMIC 10000PF 20% 16V	
C69	1-126-964-11	ELECT 10uF 20% 50V	
C70	1-126-964-11	ELECT 10uF 20% 50V	
C71	1-162-306-11	CERAMIC 10000PF 20% 16V	
C72	1-126-967-11	ELECT 47uF 20% 50V	
		< FILTER >	
CF1	1-567-389-11	FILTER, CERAMIC	
CF3	1-567-389-11	FILTER, CERAMIC	
		< CONNECTOR >	
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P	
* CN2	1-568-832-11	SOCKET, CONNECTOR 13P	
		< VARIABLE CAPACITOR >	
CV1	1-141-227-00	CAP, TRIMMER 20PF	
CV2	1-141-227-00	CAP, TRIMMER 20PF	
		< DIODE >	
D1	8-719-976-30	DIODE KV1560NT	
D21	8-719-976-99	DIODE UDZ-TE-17-5.1B	
D41	8-719-016-74	DIODE 1SS352-TPH3	
D42	8-719-987-63	DIODE 1N4148M	
D43	8-719-987-63	DIODE 1N4148M	
		< FRONT END >	
FE1	1-693-335-11	FRONT END (3 GANG)	
FE2	1-239-262-11	ENCAPSULATED COMPONENT	
		< IC >	
IC21	8-759-288-54	IC LC72130	
IC41	8-759-176-03	IC LA1835	
		< IFT >	
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JUMPER RESISTOR >	
JR45	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR46	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR47	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR48	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR49	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR50	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR51	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR52	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR53	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR54	1-216-295-91	METAL GLAZE 0 5% 1/10W	
		< COIL >	
L1	1-410-521-11	MICRO INDUCTOR 100uH	

Ref. No.	Part No.	Description	Remark
L3	1-410-521-11	MICRO INDUCTOR 100uH	
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH	
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q5	8-729-422-57	TRANSISTOR UN4111	
Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L	
Q9	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6	
Q10	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6	
Q12	8-729-900-80	TRANSISTOR DTC114ES	
Q13	8-729-900-80	TRANSISTOR DTC114ES	
Q14	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	
R1	1-249-401-11	CARBON 47 5% 1/4W	
R2	1-216-037-00	METAL CHIP 330 5% 1/10W	
R3	1-216-037-00	METAL CHIP 330 5% 1/10W	
R5	1-216-037-00	METAL CHIP 330 5% 1/10W	
R6	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-037-00	METAL CHIP 330 5% 1/10W	
R9	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R10	1-216-037-00	METAL CHIP 330 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-037-00	METAL CHIP 330 5% 1/10W	
R13	1-216-037-00	METAL CHIP 330 5% 1/10W	
R14	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R18	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R19	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R20	1-216-121-91	METAL CHIP 1.0M 5% 1/10W	
R21	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R22	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R23	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R24	1-216-025-91	METAL CHIP 100 5% 1/10W	
R25	1-249-417-11	CARBON 1K 5% 1/4W	
R26	1-249-437-11	CARBON 47K 5% 1/4W	
R27	1-249-429-11	CARBON 10K 5% 1/4W	
R28	1-249-417-11	CARBON 1K 5% 1/4W	
R29	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R30	1-216-186-00	METAL CHIP 330 5% 1/8W	
R31	1-216-025-91	METAL CHIP 100 5% 1/10W	
R32	1-249-425-11	CARBON 4.7K 5% 1/4W	

Ref. No.	Part No.	Description				Remark
R33	1-249-425-11	CARBON	4.7K	5%	1/4W	
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W	
R36	1-216-025-91	METAL CHIP	100	5%	1/10W	
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W	
R39	1-249-429-11	CARBON	10K	5%	1/4W	
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R43	1-216-042-00	METAL CHIP	510	5%	1/10W	
R44	1-216-021-00	METAL CHIP	68	5%	1/10W	
R45	1-249-423-11	CARBON	3.3K	5%	1/4W	
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W	
R48	1-249-417-11	CARBON	1K	5%	1/4W	
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-399-11	CARBON	33	5%	1/4W	
R55	1-216-162-00	METAL CHIP	33	5%	1/10W	
R56	1-249-393-11	CARBON	10	5%	1/4W	
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV41	1-238-601-11	RES, ADJ, CARBON 22K				
RV42	1-238-600-11	RES, ADJ, CARBON 10K				
		< TRANSFORMER >				
T1	1-409-505-11	COIL (ANT. SW3)				
T2	1-402-960-11	COIL (OSC SW3)				
		< TERMINAL >				
TM1	1-537-488-12	TERMINAL BOARD (ANTENNA)				
		< VIBRATOR >				
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)				
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)				
X42	1-527-981-00	FILTER, CERAMIC (450kHz)				
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)				

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* A-4303-537-A TCB BOARD, COMPLETE (H771:TH)

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< CAPACITOR >

Ref. No.	Part No.	Description				Remark
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	
C3	1-164-159-21	CERAMIC	0.1uF		50V	
C5	1-162-306-11	CERAMIC	10000PF	30%	16V	
C6	1-162-306-11	CERAMIC	10000PF	30%	16V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	
C8	1-162-306-11	CERAMIC	10000PF	30%	16V	
C9	1-162-306-11	CERAMIC	10000PF	30%	16V	
C11	1-164-159-21	CERAMIC	0.1uF		50V	
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V	
C14	1-162-306-11	CERAMIC	10000PF	30%	16V	
C21	1-102-960-00	CERAMIC	24PF	5%	50V	
C22	1-164-159-21	CERAMIC	0.1uF		50V	
C23	1-162-306-11	CERAMIC	10000PF	30%	16V	
C24	1-126-967-11	ELECT	47uF	20%	16V	
C25	1-162-306-11	CERAMIC	10000PF	30%	16V	
C26	1-126-964-11	ELECT	10uF	20%	50V	
C27	1-164-159-21	CERAMIC	0.1uF		50V	
C28	1-124-925-11	ELECT	2.2uF	20%	100V	
C29	1-102-960-00	CERAMIC	24PF	5%	50V	
C30	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C31	1-162-306-11	CERAMIC	10000PF	30%	16V	
C41	1-126-933-11	ELECT	100uF	20%	10V	
C42	1-162-306-11	CERAMIC	10000PF	30%	16V	
C43	1-126-962-11	ELECT	3.3uF	20%	50V	
C44	1-162-306-11	CERAMIC	10000PF	30%	16V	
C45	1-124-589-11	ELECT	47uF	20%	16V	
C46	1-162-600-11	CERAMIC	4700PF	30%	16V	
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C48	1-126-160-11	ELECT	1uF	20%	50V	
C49	1-136-159-00	METALIZED FILM	0.033uF	5%	50V	
C50	1-136-159-00	METALIZED FILM	0.033uF	5%	50V	
C51	1-162-600-11	CERAMIC	4700PF	30%	16V	
C52	1-162-600-11	CERAMIC	4700PF	30%	16V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-964-11	ELECT	10uF	20%	50V	
C56	1-126-964-11	ELECT	10uF	20%	50V	
C57	1-164-159-21	CERAMIC	0.1uF		50V	F
C58	1-162-306-11	CERAMIC	10000PF	30%	16V	
C59	1-164-159-21	CERAMIC	0.1uF		50V	F
C61	1-164-159-21	CERAMIC	0.1uF		50V	F
C62	1-126-967-11	ELECT	47uF	20%	16V	
C63	1-164-159-21	CERAMIC	0.1uF		50V	F
C64	1-124-902-00	ELECT	0.47uF	20%	50V	
C65	1-124-903-11	ELECT	1.0uF	20%	50V	
C66	1-124-903-11	ELECT	1.0uF	20%	50V	
C67	1-126-964-11	ELECT	10uF	20%	50V	
C68	1-162-306-11	CERAMIC	10000PF	30%	16V	
C69	1-162-306-11	CERAMIC	10000PF	30%	16V	
C70	1-162-306-11	CERAMIC	10000PF	30%	16V	

Ref. No.	Part No.	Description				Remark
C71	1-162-306-11	CERAMIC	10000PF	30%	16V	
C73	1-162-306-11	CERAMIC	10000PF	30%	16V	
C74	1-126-964-11	ELECT	10uF	20%	50V	
		< FILTER >				
CF1	1-567-389-11	FILTER, CERAMIC				
CF2	1-567-389-11	FILTER, CERAMIC				
		< CONNECTOR >				
* CN1	1-568-832-11	SOCKET, CONNECTOR 13P				
		< DIODE >				
D1	8-719-933-33	DIODE UZL-6L1-TA				
D2	8-719-987-63	DIODE 1N4148M-TA				
		< FRONTEND >				
FE1	1-233-533-11	ENCAPSULATED COMPONENT				
FE2	1-239-260-11	ENCAPSULATED COMPONENT				
		< IC >				
IC1	8-759-288-54	IC LC72130				
IC2	8-759-176-03	IC LA1835				
		< IFT >				
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)				
		< COIL >				
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE)				
		< FILTER >				
LPF41	1-239-845-11	FILTER, LOW PASS				
LPF42	1-239-845-11	FILTER, LOW PASS				
		< TRANSISTOR >				
Q1	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
Q2	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
Q3	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
Q4	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
Q5	8-729-422-57	TRANSISTOR BN1A4M-TP				
		< RESISTOR >				
R1	1-249-401-11	CARBON	47	5%	1/4W	F
R2	1-249-411-11	CARBON	330	5%	1/4W	
R3	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-433-11	CARBON	22K	5%	1/4W	
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-411-11	CARBON	330	5%	1/4W	
R9	1-249-433-11	CARBON	22K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R10	1-249-411-11	CARBON	330	5%	1/4W	
R11	1-249-433-11	CARBON	22K	5%	1/4W	
R12	1-249-411-11	CARBON	330	5%	1/4W	
R13	1-249-411-11	CARBON	330	5%	1/4W	
R14	1-249-433-11	CARBON	22K	5%	1/4W	
R15	1-249-429-11	CARBON	10K	5%	1/4W	
R16	1-249-437-11	CARBON	47K	5%	1/4W	
R19	1-249-399-11	CARBON	33	5%	1/4W	F
R21	1-247-807-31	CARBON	100	5%	1/4W	
R22	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R23	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R24	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R25	1-247-807-31	CARBON	100	5%	1/4W	
R26	1-249-411-11	CARBON	330	5%	1/4W	
R27	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R28	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R29	1-249-417-11	CARBON	1K	5%	1/4W	F
R30	1-249-417-11	CARBON	1K	5%	1/4W	F
R31	1-249-417-11	CARBON	1K	5%	1/4W	F
R32	1-249-417-11	CARBON	1K	5%	1/4W	F
R33	1-247-807-31	CARBON	100	5%	1/4W	
R34	1-249-429-11	CARBON	10K	5%	1/4W	
R35	1-249-429-11	CARBON	10K	5%	1/4W	
R36	1-249-437-11	CARBON	47K	5%	1/4W	
R37	1-249-417-11	CARBON	1K	5%	1/4W	F
R41	1-249-429-11	CARBON	10K	5%	1/4W	
R43	1-249-421-11	CARBON	2.2K	5%	1/4W	
R44	1-249-421-11	CARBON	2.2K	5%	1/4W	
R46	1-249-442-11	CARBON	510	5%	1/4W	
R47	1-249-403-11	CARBON	68	5%	1/4W	F
R48	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R49	1-249-393-11	CARBON	10	5%	1/4W	F
R50	1-249-429-11	CARBON	10K	5%	1/4W	
R51	1-249-441-11	CARBON	100K	5%	1/4W	
R52	1-249-429-11	CARBON	10K	5%	1/4W	
R53	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R54	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV41	1-238-600-11	RES, ADJ, CARBON 10K				
RV42	1-238-601-11	RES, ADJ, CARBON 22K				
		< TERMINAL >				
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)				
		< VIBRATOR >				
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)				
X41	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)				
X42	1-760-220-11	FILTER, CERAMIC (10.7MHz)				
X43	1-527-981-00	FILTER, CERAMIC (450kHz)				

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Ref.No.	Part No.	Description	Remark
*	1-659-328-11	TRANSFORMER BOARD	

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< CONNECTOR >

Ref.No.	Part No.	Description	Remark
* CN1600	1-564-525-11	PLUG, CONNECTOR 10P	
CN1601	1-564-321-00	PIN, CONNECTOR 2P	

< FUSE HOLDER >

Ref.No.	Part No.	Description	Remark
FH1601	1-533-223-11	HOLDER, FUSE (H771:E, EA, HK, SP, AR)	
FH1602	1-533-223-11	HOLDER, FUSE (H771:E, EA, HK, SP, AR)	

< RESISTOR >

Ref.No.	Part No.	Description	Remark
⚠R1600	1-202-725-00	SOLID 3.3M 10% 1/2W (H771:US, CND/H771D)	

< SWITCH >

Ref.No.	Part No.	Description	Remark
⚠VS1601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (H771:E, EA, HK, SP, AR)	

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MISCELLANEOUS

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Ref.No.	Part No.	Description	Remark
4	1-769-978-11	WIRE (FLAT TYPE) (13 CORE) (H771:US, CND, E2, AUS, MX, AR, TH/H771D)	
4	1-773-010-11	WIRE (FLAT TYPE) (15 CORE) (H771:AEP, UK, E3, G, IT, EE, CIS, EA, MY, HK, SP)	
* 5	1-233-544-11	ENCAPSLATED COMPONENT, FM/AM TUNER (H771:US, CND/H771D)	
* 5	1-233-545-11	ENCAPSLATED COMPONENT, FM/AM TUNER (H771:E2, AUS, AR, MX)	
* 5	1-233-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER (H771:E3, EA, MY, SP, HK)	
6	1-769-978-11	WIRE (FLAT TYPE) (13 CORE)	
7	1-769-946-11	WIRE (FLAT TYPE) (11 CORE)	
8	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
9	1-776-166-11	WIRE (FLAT TYPE) (19 CORE)	
11	1-769-979-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	
52	1-537-770-21	TERMINAL BOARD, GROUND	
⚠57	1-575-651-11	CORD, POWER (EXCEPT H771:US, CND, UK, E, AUS, MX, TH/H771D)	
⚠57	1-575-653-11	CORD, POWER (H771:E, MX)	
⚠57	1-690-608-11	CORD, POWER (H771:AUS)	
⚠57	1-690-609-21	CORD, POWER (H771:US, CND/H771D)	
⚠57	1-751-326-31	CORD, POWER (H771:TH)	
⚠57	1-751-520-21	CORD, POWER (H771:UK)	
⚠58	1-569-007-11	ADAPTER, CONVERSION 2P (H771:E3)	
⚠58	1-569-008-21	ADAPTER, CONVERSION 2P (H771:EA, MY, SP)	
⚠58	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (H771:HK)	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
⚠301	8-848-387-01	OPTICAL PICK-UP KSS-213BA/S-N	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠F1601	1-532-350-00	FUSE, TIME LAG (T4A, 250V) (EXCEPT H771:US, CND/H771D)	
⚠F1601	1-576-108-11	FUSE (H771:US, CND/H771D)	
⚠F1602	1-532-350-00	FUSE, TIME LAG (T4A, 250V) (EXCEPT H771:US, CND/H771D)	
⚠F1602	1-576-108-11	FUSE (H771:US, CND/H771D)	
⚠F1603	1-532-203-00	FUSE, TIME LAG (T2A, 250V) (E, EA, SP, HK, AR)	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-3369-111-1	MOTOR ASSY (TRIGGER)	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	
M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
S811	1-473-335-11	ENCODER, ROTARY	
⚠T1001	1-429-435-11	TRANSFORMER, POWER (H771:AEP, UK, G, IT, EE, CIS)	
⚠T1001	1-429-436-11	TRANSFORMER, POWER (H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)	
⚠T1001	1-429-556-11	TRANSFORMER, POWER (H771:US/H771D:US)	
⚠T1001	1-429-644-11	TRANSFORMER, POWER (H771:CND/H771D:CND)	

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ACCESSORIES & PACKING MATERIALS

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Ref.No.	Part No.	Description	Remark
*	4-981-035-01	CUSHION (FRONT)	
*	4-981-036-01	CUSHION (REAR)	

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HARDWARE LIST

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Ref.No.	Part No.	Description	Remark
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-621-775-10	SCREW +B 2.6X4	
#5	7-621-255-15	SCREW +P 2X3	
#6	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
#7	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#8	7-623-921-01	RING, RETAINING, CAPSTAN	
#9	7-621-775-00	SCREW +B 2.6X3	
#10	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#11	7-621-770-67	SCREW +BVTT 2.6X6 (S)	

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